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SYSTEMATA
LAPIDUM
SEQUENTIA PRÆCIPUA SUNT.

CAROLI A LINNÉ,

EQUITIS AURATI DE STELLA POLARI,

Archiatri Regii, Med. & Botan. Profeſſ. Upſal. Acad. Pariſ. Upſal. Holm. Petropol. Berolin. Imper. Londin. Angl. Monſp. Toloſ. Florent. Edinb. Bern. Soc.

SYSTEMA NATURÆ

PER REGNA TRIA NATURÆ,

Secundum Claſſes, Ordines, Genera, Species; cum Characteribus & Differentiis.

TOMUS III.

EDITIO DECIMA TERTIA, AUCTA, REFORMATA.

CURA

JO. FRID. GMELIN,

Philoſ. & Med. Doctor. hujus & Chem. in Georgia Auguſta Prof. P. O. Acad. Cæſar. Naturæ Curioſorum & Electoral. Moguntin. Erfordenſis, nec non Societ. Reg. Scient. Goettingenſis, Phyſicæ Tigurin. & Metallicæ Membri.

LUGDUNI,

Apud Bernuset, Delamollière, Falque et Soc.

1796.

JEHOVÆ eſt Terra & plenitudo ejus ;
orbis terræ , & quæ habitant in eo.
Ipſe ſuper Maria plantavit eam ,
& ſuper Eam firmavit flumina.
Aſcenderunt Montes & deſcenderunt Campi
in locum , quem fundavit eis.

DAVID. XXIV. 1 , 2 , c. IV. 8.

PRÆFATIO AUTORIS.

LITHOLOGIA mihi criſtas non eriget, Lapides enim, quos quondam in deliciis habui, tradita demum aliis diſciplina, ſepoſui, neque nunc, niſi laceſſitus, recepiſſem.

PRIMUS anno 1736 Lapides in *Methodum Syſtematicam* diſpoſui, conſtituendo *Genera* fixa *Characteribus* definita, quæ omnia non omnibus inviſa fuiſſe, ex ſcriptis ſucceſſorum intellexi, quamvis nonnulli meis humeris inſiſtentes, citcumſpexere altius, quædam mutando addendoque non ſine ſupercilio.

DEIN ſurrexere varii Lithologi & Mineralogi conſummati: WOLTERSDORF, WALLERIUS, JUSTI, SWAB, CRONSTEDT, VOGEL, qui divino afflatu inſpirati ſua obſervata cum erudito orbe communicarunt, quibus, quod infinito labore & ſudore montium & Naturæ abyſſum penetrarunt, ſempiterna ab omnibus æquis cenſoribus debetur gloria; ſapientes enim eruditos maligno dente ſe invicem rodere, non equidem invideo, ſed miror magis; at homo natura malus morum cultura & nobiliore educatione emendandus: de ferro eſt ultima ætas.

MINERALOGI viam Chemicam incedere coacti ſunt pro ſcopo Metallurgo obtinendo, a qua in viam Phyſicam aſcendere allaborarunt; hi lithologiam ſibi vindicarunt tanquam propriam, quemadmodum Medici olim Botanicen. In his primas tenet incertus (*Anonymus in Mineralogia Holm.* 1756. *oct.*) de cujus autore utar verbis Iſaci mutatis: vox Swabii, manus Cronſtedti; illius *) enim dogmata dudum in familiari colloquio audivi, antequam hic adoleverat.

*) *Summus Mineralogus* Ant. Swab *obiit d.* 28 *Jan.* 1768. *æt.* 64.

IPSE Lapides non ſcopo Metallurgico, ſed ut Naturæ Conſultus omnibus gentibus utiles conſideravi, Viam Mediam incedere coactus, nec auſus ubique aſſociare germanos fratres (Cretam & Silices;) nec proſcribere Genera, quæ Natura civitate donavit (Humum, Cotem, Nitrum;) nec ſeparare, quæ hæc fœderato connubio conjunxit (Spati ſ. Schiſti ſpecies.)

LITHOGENESIAM ſtudioſe in itineribus quæſivi, didicique eam abſolvi Præcipitatione & Cryſtalliſatione, atque Terras proſterni, ſed Quartzum, Spatum, Micamque exſurgere. Terras femineas dein imprægnari a Salibus maſculis, indeque prognaſci Nobiliores; horum vero plurimos a Marte, proteo magis mutabili, pro indole cujuſcunque conjugis.

SALIUM metamorphoſin etiamnum occluſam Lithologis ſerio commendo, quæ ſi æque aperta fuerit ac hodie Terrarum janua, nova lux affulgebit Lapidum geneſi. Cryſtallos lapidoſa, quod Salibus dudum ſubjeci (ob rationes alibi *) datas, & pluribus dein confirmatas, adeoque non mutandas) a variis reprehenſus fui, ſed vix ab aliis, quam qui ignorant, quid diſtent Silices a Calce.

PETRARUM ordines nomine, non vero omine, mutavi, uti dudum Mammalia, ne hallucinarentur frivoli.

TERRAS Primitivas lubenter Petris præmiſiſſem, ſi leges Artis & Naturæ admiſiſſent, ſed prævidens me incidentem in Scyllam cupientem vitare Charybdin, obſervavi Naturæ ſimplex veri ſigillum per circulum incipere, ubi deſinit. **)

Upſaliæ 1768.

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*) *Amoen. acad.* I. *p.* 454.

**) *Salom. Concion.* III. 10.

PRÆFATIO EDITORIS.

SI in omni alia hiſtoriæ naturalis parte preſſius ſequi immortalem Autorem, muneris mei eſſe putavi, in hac certe viam ab eo calcatam & præmonſtratam paulisper deſerere conſultius duxi; non enim moræ modeſtiæ, ſed veritatis ſigillo notata ſunt, quæ in primis ſuæ præfationis lineis enunciavit.

Quamvis multa ſagax prævideret, quæ noſtra demum ætas in apricum protulit, tam multa tamen, ſive ad principia, ab eo ad explicandam mineralium generationem, & formam præſentem ſtabilita, ſive ad diſtributionem in claſſes, ordines, genera & ſpecies, ac fundamenta. quibus illa nititur, ſive denique ad notas reſpicias, quibus & genera & ſpecies diſtinxit, tumimmutanda, tum addenda occurrunt, quæ aut fertili ſuo ingenio hinc inde nimis indulgens, prætervidit B. Autor, aut tum coævorum ipſorumque ejus popularium, tum mineralogorum noſtram hanc ætatem ornantium *T. Bergmani*, *Scheelii*, *Ferberi*, *Kirwani*, Generoſiſſ. de *Veltheim*, *Trebras* & *Wulſen*, *Sauſſurii*, *Hœpſneri*, *Storrii*, *Mayeri*, *Meyeri*, *Klaprothii*, *Gerhardi*, *Bruckmanni*, *Werneri* & præcipuorum Clariſſ. Viri diſcipulorum *Voigtii*, *Karſtenii*, *Widenmanni*, *Hoffmanni*, porro *Pallaſti*, *Georgii*, *Fortis*, *Sc. Brislacii* aliorumque indefeſſa induſtria recentius detexit, aut felicius ingenium dilucidius expoſuit meliusve perſpexit.

Aquæ ſuos natales debere terram vel refragatur omnibus quas de ortu terræ ejusque & aquæ vera indole concipere licet, conjecturis, vel ambigue ſaltem dictum eſt; plurimam terræ partem, quam noſtra hac ætate & a multis retro ſeculis ſiccam colimus, olim infra aquas hæſiſſe, mariſque undis tectam, & ſuperiora terræ noſtræ in plurimis regionibus ſtrata, non conſtent niſi terra ex his aquis, per quas antea diſperſa erat, præcipitata & animalium, quæ quondam has aquas inhabitabant, ruinis, cuilibet naturæ officinam attento animo perluſtranti, ultro patet.

Terras aceſcendo vel putreſcendo gigni non niſi de humo valet; calcem non omnem ex animali regno proficiſci, tot montium calcariorum primævorum, ſive ætate corporibus animalibus ſuperiorum exempla edocent; argillam plurimam ex fatiſcentibus petris durioribus, ſive ignis ſubterranei vi progenitæ fuerint, ſive aliam originem nactæ, quales v. g. ſpathum ſcintillans, ſchiſtus, mica &c. tot obſervationes noſtris temporibus ubivis obviæ loquuntur; multam arenæ partem idem primordium capere, aliam non quidem ex aqua, ſed aquæ, dum ex ſummis montium cacuminibus præceps agitur lapidum fruſta ſecum rapientis et triturando in granula comminuentis vi oriri neminem, qui naturæ continue agentis contemplatione delectatus, latere putem.

Talcum pluresque lapides, quos B. Autor huic generi ſubjecit, & asbeſtos terram continere, quæ, quamvis a *B. Marcgrafio* jam tanquam pars princeps evidentiſſime demonſtrata ſit, ab ipſo neglecta fuit, magneſiam albam ſcilicet, novimus omnes; hanc autem ex argilla naſci, quis, quæſo, aſſeverante quamvis *Linnæo*, ſibi perſuadebit?

Schiſti partem ex humo naſci, negari vix poteſt; plurimum vero lapidis, hoc nomine deſignati partem, & humo, & omnibus corporibus vivis, ex quorum ruinis humus exſurgit, antiquiorem eſſe, ejus in montibus ſitus luculenter teſtatur.

Ochram in quam ſchiſtus interdum reſolvitur, non a materie ſchiſti ipſius, ſed ab innidulante ſæpius & fatiſcente pyrita proficiſci, facile eſt demonſtratu.

Calcem in ſilicem converti, ſunt utique & noſtra hac ætate, qui contendant: at caveant, ne meram ſegregationem particularum ſilicearum a calcareis quibus ſæpe intertritæ ſunt, pro commutatione harum in illuc habeant.

Cryſtallorum generationem ſalis adminiculo mirifice promoveri, ex officinis chemicis conſtat; conſtat etiam, terras aqua acido aëreo imprægnata ſolutas hoc ſenſim ſenſimque effugiente facilius longe cryſtallorum forma præci-

pitari; neque tamen inde concludi poteſt, omnibus cryſtallis lapideis, ut gignantur, ſale quodam opus eſſe, & multo minus, omnes cryſtallos lapideas ſalem continere, aut ſalia eſſe, quum chemicum ſcrutinium in plurimis certe earum ne miculam quidem ſalis detexeris, & omnibus eſſentiales, ab ipſo B. Linnæo exactæ, ſalium notæ deſint.

Colorem lapidum terrarumque cæruleum atque viridem frequentius a ferro provenire, quam quidem a cupro ſerius examen edocuit; magneſiam quoque nigram in tingendis atque pingendis aliis mineralibus ſæpius a natura adhiberi, *Mayeri* inprimis opera novimus.

Metalla ex terra, ſale & ſulphure conſtare vetus quidem eſt opinio; verum an perinde vera, noſtriſque temporibus confirmata? Vix videtur.

Petrificata, uti appellunt, noſtris temporibus omnino viſa ſunt in quartzo & calcario ſpato.

Fiſſuras rupium exſiccatione, aquæ ſenſim ſenſimque penetrantis, ſolventis, eluentis, dum in glaciem abit, diſtendentis vi, terræ motibus vehementioribus, ignis ſubterranei violentia natas eſſe, valde probabile eſt.

Molybdænum metallicæ eſſe indolis noſtra ætas confirmavit; metallo tamen & ab omnibus aliis, B. *Linnæo* jam cognitis, & ab eo metallo, quod tum magneſiæ nigræ, tum ſpumæ lupi ineſt, quas ille in unum genus cum molybdæno confuderat, diſtincto.

Lapides judaicos echinorum quorumdam aculeis ſuos debere natales, extra omnem dubitationis aleam poſitum eſt.

REGNUM LAPIDEUM.

Fuiſſe HUMOREM rerum initium *Aquamque* Terræ primordium, e quo ſurrexere omnia, teſte Moſe, Thalete, Seneca, manifeſtatur, dum chaoticum Nucleum inundans Mare genitum in ſe fœtidum lente enititur in *Continentem*, quam, exhalando continuo *Rorem*, in *Nebulas* elevandum, imbribus æthereis rectificatis deciduis quotannis lactat *Cataclyſmi* univerſalis certa rudera ego nundum attigi, quouſque penetravi; minus etiam veram *terram adamiticam*, ſed ubique vidi ſactas ex Æquore Terras, & in his mera *Rudera* longinqui ſenſim præterlapſi ævi.

AQUA oceani humida frigidula, paſſiva, concipiens, ubique fœcundata a ſicco, caleſcente, activo, generante AERE, obſervatur in ſinu ſuo intimo prægnans gemino Fœtu:

Maſculo ſolubili, acri, claro, cryſtallino SALINO,
Femineo fixato, viſcido, opaco, attractorio TERRENO.

Privignos inſuper duos VEGETABILEM & ANIMALEM, ſeminum catena continuandos, enutriet hæc Aqua: Hi ambo in terram reducentur perenni circulo, dum etiam horum hæres erit nutrix Noverca.

SALIA ſapida, polyedra, diaphana, multiplicativa, ſolubilia in particulas minimas infinitas, nihilominus ſemper conformes, concreſcenteſque iterum iterumque in majores etiam conformes, generant cryſtalliſando, in et ex *terris* variis, varios Lapides:

NITRUM	Aëreum,	obducendo	auget	*Arenam.*
MURIA	Marina,	corrudendo	attrahit	*Argillam.*
NATRUM	Animale,	reſudando	coagulat	*Calcem.*
ALUMEN	Vegetabile,	ramificando	ferruminat	*Humum.*

Sic PATRES *Lapidum.*

Pholades *inhabitant mare mediterraneum, intra rupium parva foramina, per quæ adultiores egredi nequeunt, & quidem ad ipſam maris ſuperficiem, nec ultra, ut fluctus hauriant; cumque etiamnum vivæ ibi hærent & reliquerunt ſua foramina cum emortuarum teſtis, ante ſecula rupibus incluſis & inſculptis, & quidem uſque in altiſſimas Italiæ alpes, teſtes hæ ſunt locupletiſſimi aquæ ſubſidentiæ.* Confer Donat. Act. angl. 1757. n. 50. §. 11.

TERRÆ pulveræ, ſiccefcentes, diſſolubiles, fixæ, primitivæ
Cryſtalliſando generatæ aut *Præcipitando* prognate;
Aceſcendo progenitæ aut *Putreſcendo* renatæ,
e quibus *Cryſtalliſando* ſ. *Attrahendo* Lapides renaſcuntur, & hi iterum iterumque in Terras elementorum varietate reſolvuntur, regeneranturque, circulo itidem perenni.

ARGILLA Præcipitatio MARINÆ aquæ viſcidæ:
Opaca, plaſtica, friabilis, induranda, apyra.

ARENA Cryſtalliſatio PLUVIALIS aquæ turbidæ:
hyalina, exſucca, ſcintillans, perſiſtens, vitreſcens.

HUMUS Reſolutio VEGETABILIUM aceſcentium:
nigra, bibula, pulverea, flagrans, combuſtibilis.

CALX Reſolutio ANIMALIUM putreſcentium:
albida, abſorbens, farinacea, penetrabilis, efferveſcens.

ARGILLA Terra aquæ Marinæ, Muriæ olim oppoſita, ſordida, viſcida, lubrica, impalpabilis, amorpha, tenax, Colore opaca, Humido plaſtica, Solo naturali madida, Siccitate friabilis, Ignitione induranda, Uſtione apyra, at ex miſcela heterogenea in igne polymorpha, ſiccata diutius compreſſaque induratur in raſile *Talcum*, quod reſolutum regeneratur ſæpius in fibroſum *Asbeſtum*, at vero intime reſoluta mire recreſcit in ſquamoſam *Micam*.

ARENA Terra aquæ Pluvialis Nitro æthereo imprægnatæ, nitida, fixa, rigida, ſcabra, cryſtallina, disjuncta, Colore hyalina, Humido exſucca, Chalybe ſcintillans, Ignitione perſiſtens, Uſtione determinata vitreſcens, rejecta ad continentem ſiccataque pellitur *Arena mobilis*; hæc antiquata friabilis demum evaſit *Arena Glarea*; utraque ſubterranea madens, oblique tranſverſeque fiſſa, cryſtalliſationis atomis ulterius connectitur in *Cotem*, mixtave peregrinis humoſis ferruminatur in *Sabulum*, & hoc dein in varios *Lapillos*, lapillique in *Saxum*, at vero reſoluta recryſtalliſataque conficit *Quartzum*.

Natura *æquilibrat univerſum rerum Diſcordiis.*
AQUA *humida, viſcida, attractiva*, ARGILLÆ.
AER *ſiccus, acris, cryſtallinus*, ARENÆ.
ergo *attractio* e viſcido, *cryſtalliſatio* e ſale:
accedit *fermentatio* Vegetabilis, *putrefactio* Animalis.
unde Acidum, inde Alcali.
primum Solidum ponderoſum, Igneum leve eſt,

HUMUS Terra Vegetabilium, Nitri amaſia, aceſcens, Colore nigra, Humidi bibula, Fractura friabilis, Siccitate pulveracea, Ignitione flagrans, Uſtione combuſtibilis, hæc diuturna compreſſione induratur in fiſſilem *Schiſtum*, qui paſſim bitumine ſaturatus evaſit *Lithanthrax*; reſolvitur vero Schiſtus non raro in terreſtrem *Ochram* regenerandam multiplicativa mineraliſatione in *Tophum*.

CALX Terra Animalium, Natri conjux, alcalina, Colore albida, Acidi abſorbens, Ratione obſecundans, ſiccitate farinacea, Ignitione penetrabilis, Uſtione efferveſcens, calcificans peregrina Humoſa Argilloſaque in *Marmor*; at reſoluta ſaturataque acido recryſtalliſatur in *Gypſum*, acido, ſine igne depuratorio, amplius non efferveſcens; utrumque ab elementis reſolvitur in farinoſam *Cretam*, aqua ætherea, teſte Echinita, concreſcentem in *Silicem*; at reſoluta, teſte Stalactita, recryſtalliſatur in Spatum.

Sic MATRES *Lapidum*.

LAPIDES e Terris concreſcunt, reſolvuntur iterum, recreſcunt:

			Reſolvitur	Regeneratur
ARGILLA	attrahitur	in *Talcum*,	in *Lithomargam*,	in *Amiantum*.
ARENA	accreſcit	in *Cotem*,	in *Sabulum*,	in *Saxum*.
HUMUS	ferruminatur	in *Schiſtum*,	in *Ochram*,	in *Tophum*.
CALX	coagulatur	in *Mormor*,	in *Cretam*,	in *Gypſum*.

LAPILLI *Diaphani* e Matre fluida, uti e fixa *Opaci* ſurrexere, Tincti ſæpius alumine Vitriolico, colore varii e Vario; his replentur & conſolidantur rupium vulnera cum Cicatrice.

MICA concretio Argillæ, ſquamoſa, flexilis, opaca, nitens, ignitione rigidior, ſed nitidior evadens.

QUARTZUM cryſtalliſatio aquæ elementaris, pellucidum, durum, e cavitate aquoſa rupium, ideoque ſemper paraſiticum, obſcuratis ſæpius cryſtallis motu ſ. copia.

SPATUM cryſtalliſatio Aquæ calcariæ, diaphanum, fragile, cujus rhombos internos a diverſa cryſtallo gnarus diſtinguit; marte adulteratum evadit durius chalybeque ſcintillans.

CRYSTALLI lapidoſæ in & ex Aqua, ſale impregnata, nec ſaturata, atomis terreſtribus impalpabilibus ſcatente, in cavis lapidum retenta, exſurgunt quiete et mora; nec iterum aqua ſolubiles in atomos impalpabiles. Figura polyedra differunt a reliquis omnibus lapidibus nec alia gaudent, quam ſalibus popularibus propria, quæ cryſtalliſationis unica cauſſa naturalis hodie nota, nec ſalia figuram determinarent, niſi ſimul incorporando. *Stalactites* ſic accreſcit tunica cryſtallina, uti *Calculus*, at ſine ullo ſale cryſtallos exiſtere nemo poſtulabit, et terram ſalibus cryſtalliſari ſanus nemo dubitabit; ha-

rum Pelluciditas ab atomis, Color autem a Metallis; Gemmarum a pelluciditate, duritie, perſiſtentia, colore pretium, impotentis itaque humanæ libidinis offuciæ.

VITRIOLUM aluminis natum, Metallo maritatum, varium exſurgit & figura gaudet diverſa pro indole cujuſcunque metalli; hujus tres frequentiſſimæ ſpecies: *Ferri*, *Cupri*, *Zinci*, illorum totidem vulgatiſſimi fiunt ſulphurei *Pyritæ*, horumque totidem frequentiores evadunt terreæ *Ochræ*. Pyritæ itaque diverſi diverſam aſſumant Figuram; horum terra, in quam reſolvuntur, vulgo audit *Ochra*, quæ enim e Ferro *lutea*, uſtulata vero fit *rubra*; quæ autem e Cupro ex acido *viridis*, ex alcali *cærulea*, inde lapides *Lutei* & *Rubri* plerumque e Ferro, uti lapides *virides* & *cærulei* plerumque e Cupro, utraque ochra cryſtalliſando coagulat terras in *Tophos*.

METALLA ſupredecompoſita conſtant e *Terra*, *Sale*, *Sulphure*. Ferrum ubivis præſentaneum, ſæpe ſolvitur ab elementis, ſoluto ſcilicet ſalve vitriolico, præcipitataque terra ochracea; Ferrum cryſtalliſando ferruminat Terras in lapides, abſorptum multiplicatur metallo, ut vidi in littore, *) ſic multoties plus producit, quam primitus acceperat. Stagnans ⊕ in rupium aquam retinentibus fiſſuris tranſit ætate multiplicatum præcipitatumque in venam, quæ tranſverſe diſſecta, fiſſuraque repleta terra peregrina mutabit illico metallicam ibi venam in diverſam, ut ex Ferro Cuprove ſæpe Plumbum Argento dives, &c. Vena n. una eademque variabili modificatione ſcatet, ſæpeque ○, ⊕, O=O, 🜍, ♂, ♀, ☉, ☽, ♁, ♄, zz, w.

SAXA rupeſtria, ſolidiſſima, profundiſſima, vaſtiſſima, maxime longæva, tanquam relluris eminentia oſſa, ex Arena, Sabulo, Lapillis, Lapidibuſque concreta, immixtis paſſim argillaceis, evadentibus ſæpius Talcoſis, ferruminata demum in ſolidiora, repletiſque interſtitiis, cryſtallis Quartzi, Spati Micæque varie & temere mixtis; hæc Temporis natos eſſe ob ſtrata naturæ nullus dubitet, ob partes vero eorum conſtitutivas nullus non palpabit. Metallurgi imprimis ſcrutantur hac Minerarum matrices, ex miſcela polymorphas, in igne diverſas.

PETRIFICATA, Marmoreorum montium verius parentes quam nati, tot poſſibilia, quot Animalia Vegetabiliave conſiſtentiora; Sapiens itaque coarctet minus fructuoſam Scientiam, ignotos tamen hodierni orbis incolas non ſuſque deque habeat. Modi petrificationis

*) Tophus marinus.

quadruplices præprimis obſervantur: *Foſſilia*, *Redintegrata*, *Impreſſa*, *Transſubſtantiata*, ita frequentia in *Marmore*, *Silice*, *Schiſto*, *Cote*, ac inviſa *Apyris*, *Saxo*, *Quartzo*, *Spato* extero.

PARADOXA varia etiamnum ſepoſuit artis calamitas:

FISSURAS Rupium conſolidatas clare diſtincteque vidimus, at quæ vis valuerit eas frangere, non attigi.

SPATUM omne cryſtalliſando genitum ex cavis repletis perſpexi, nec, ſine rhombis, autorum Spatum unquam concepi; at cur in rhombos frangatur, non ſatis intellexi, aut quando e cubico-muriatico rhombeum evaſerat.

AMIANTUM e terra Talci regeneratum vidi, at cauſam non intellexi.

MOLYBDÆNUM metallicum eſſe dubitare non potui, Zinco ſæpe prægnans aut Stanno a variis didici, an mere tale non credidi.

JUDAICOS lapides e corpore cavo petrificata eſſe perſpicio, cum Spato e fluido generato, ſæpe toti conſtent, at e quo animali orti ſint, me prorſus fugit, quum Echini non mihi ſatisfecerint.

SALIA primaria gaudent propria & determinata figura, ſed mutata ſæpius exoriuntur in diverſam etiam determinatam; at ex qua miſcela propria aut mixtura aliena terrena nondum perſpexere Halurgi. Cumque Metalla ex ſale generantur cryſtalliſando, fruſtra in Metallorum veram transformationem deſudarunt Alchemiſtæ, quamdiu hæc ſalium metamorphoſis etiamnum lateat, quam adeo neglexerunt Metallurgi, ac in terrarum indole toti fuere.

STRATA Telluris *) ex ruptis montibus conformia ſæpius vidi, nec tamen dixero omnia ejuſdem generis eſſe et pelagica:

1. infimum e *Cote*.
2. ſecundum e *Schiſto*.
3. tertium e *Marmore*, nidulantibus Petrificatis Pelagicis, ſæpe etiamnum peregrinis.
4. quartum e *Schiſto*.
5. ſupremum e *Saxo* rupeſtri, ſæpe vaſtiſſimo.

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*) Strata terræ *varia*, *æquali ordine & diſtantia conſtanter obſervantur*, *ideoque & hæc ſoli accretio*, *tam bene diſtincta*, *multorum ſeculorum potius*, *quam communis cataclyſmi tumultuarium & turbulentum opus cenſeri debeat.* Ramazz. mut. 279.

OCEANUM Matrem Telluris eſſe nullus non videre potuit :

a. *Imbribus* nitroſis turbatur, præcipitatur & cryſtalliſatur aqua maris in Arenam, maris fundum obtegentem.

b. *Fuco natante* Pelagus paſſim latiſſimeque obducitur, unde *quies* aquæ non obſecundantis variabili vento.

c. *Humus* emortui Fuci b) ſenſim deſcendit, arena a) levior, dum pergit Fucus b) in pratum natans concreſcere.

d. *Vermes* pelagici, Molluſca, Teſtacea, Litho & Zoophyta, Piſceſque natantibus ovis, Aveſque compeditæ impenneſque ſub prato Fucoſo pelagico c) paſcuntur.

e. Pacata ſub aqua b) depluit ſedimentum Argillaceum, cum ſenſim emortuorum vermium teſtis d) calcareis uſque in cumulum altum ſuperficiei maris proximum, dum preſſio excitans aquam b) depellat pelagica d).

f. ad Scopulum formatum, ex ſua lege, rejicit Mare inprimis Fucos copioſos varios, in *humum* deliqueſcentes uſque dum nuda terra inferior *arenacea* a) emineat, quæ ſiccata volitat, mixtaque in ſabulum ſaxaque concreſcit.

g. Seculorum dein longiori ævo, temporumque perenni quiete.

1. concreta *Arena* a) in *Cotem* 1) varie ſed proprie fiſſam.
2. ferruminata *Humo* c) in *Schiſtum* 2) lamelloſum, combuſtibilem.
3. indurata *Argilla* e) in *Marmor* 3) a vermibus coagulatum.
4. ferruminata *Humo* f) in *Schiſtum* 4) ſuperiorem, modo priore.
5. concreta *Arena* f) in *Sabulum* 5) immixtis peregrinis.
6. hoc dein in Lapillos, & hi in Saxa, hæc in Rupes, ſubſidente demum lente maris aqua evaſit *Mons*; nec potuiſſe altiſſimæ Rupes 5) nataſſe ſupra Argillam, dum, antequam calcificaretur, vermes pelagici in ea adoleſcerent, ideoque & Rupes ſaxeas altiſſimas ævi veros filios eſſe, dum omnia obmutuere, ipſi loquantur Lapides *) *tantum ævi longinqua valet mutare vetuſtas.*

SPECIES ſæpiſſime vix ac ne vix quidem ſufficienter determinari queunt, cum in his geneſis ex ovo omnino nulla unquam exiſtat, ſed multiplex mere ludentis naturæ polymorphæ varietas ſit & calamitas ipſius artis & Metallurgiæ fundamentum. Species itaque heic, qui laborioſe perperam multiplicaverit, æque ignarus eſt, ac ille, qui omnino diſcordes combinaverit; nec Matrix in his magis diverſas ſpecies diſtinguit, quam in plantis Terræ, Stationes aut ſolum natale, adeoque in Lapidibus plerumque meræ ſunt *varietates*, in quibus cæcutientes errare certant.

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*) Luc. XII. 40.

VIA triplex tantum per Regnum Lapideum curioſos ducit: PHYSICA, quæ deſcendit per Lapidum obſcuras *Geneſes*. NATURALIS, quæ excurrit per Lapidum apricas *Structuras*. CHEMICA, quæ aſcendit per Lapidum deſtructivas *Analyſes*. Mediam itaque nunc, ut ſemper, tutiſſimam ibit Tyro, ſequendo ubique arctiſſime ſuum filum ariadneum, ne ſemioticen cum therapia confundat Empiricus, nec a deperditis atavis ſæpe dubiam repetat progeniem, minus panophobus fingat in tenebris imaginarios manes, aut ſtolide e cineribus regenerandum Poëtæ Phœnicen; diſcat, quæ repugnent conveniantve nomina rebus, ſciatque characteres definiri diagnoſticis, nec Etymo. Hæc nec ultra, ne obſcurus videar obſcurioribus.

In manibus terræ, non hic te carmine longo
atque per ambages et longe exorſa tenebo.

I. TERRÆ.
Bolus.
Lac lunæ.
Lithomarga.
Umbra.
🜃 Veronenſis.
Virid montan.
Cimolia.
🜃 colonienſis.
Ochra.
Creta.
Tripolitana.
Porcellana.
Marga.
Gur.
Turfa.

II. SALIA.
🜔 culinare.
Nitrum.
Alumen.
Vitriolum.

III. SULPHURA.
Sulphur.
Bitumen.
Petroleum.
Succinum.
Lithanthrax.

IV. LAPIDES.
1. *Igne perſiſtent.*
Ollaris.
Amiantus.
Asbeſtus.
Fuſorii.

V. 2. *Calcinabiles.*
Calcarius.
Suillus.
Marmor.
Gypſum.
Spatum.
Stalactites.
Fiſſilis.
Specularis.

VI. 3. *Igne Vitreſcentes.*
Arena.
Arenarius.
Gemma.
Granatus.
Silex.
Quartzum.
Cryſtallus.
Fluor.

VII. FIGURATI.
Luſus.
Geographicus.
Aëtites.
Oſteocolla.
Fulminaris.
Violaceus.

VIII. PETRIFICATA.
Lithoxila.
Lithophyta.
Corallia.
Lap. inſectiferi.
Ichthyolithi.
Cruſtacei.
Teſtacei.
Petrif. animalia.

IX. CALCULI.
Bezoar.
Oculi cancrorum.
Margarita.

X. SEMIMETALLA.
Mercurius.
Antimonium.
Biſmuthum.
Zincum.
Plumbago.
Calaminaris.
Magneſia.
Hæmatites.
Magnes.
Smiris.
Cærul. montanum.
Arſenicum.
Auripigmentum.
Cobaltum.
Pyrites.
Baſaltes.
Sterile nigrum.

XI. METALLA.
Aurum.
Argentum.
Cuprum.
Stannum.
Plumbum.
Ferrum.

Generum nulli Characteres dati.

Violaceus lapis (a Byſſo Jolitho, ipſi innato,) judicatus propria ſpecies.

Arenam ſeparat a Terris.

Sulphur ord. 3. a. Pyrite ord. 10. diſtinguitur.

Serpentinus ad Marmora refertur ab eo & pluribus.

Micam cum calcariis convenire judicat.

Dividit Lapides ſimplices in eos, qui in *igne perſiſtunt*, qui in *igne vitreſcunt*, qui in igne tranſeunt *in calcem*. Hanc diviſionem aſſumſere dein alii: *Ego* 3, 2, 1. *Woltersdorf* 2, 4, 1. *Wallerius* 3, 2, 1. *Anonymus* 4, 2, 1. *Vogel* 1, 5, 2. mutato ſolo nomine

Methodus Bromeliana nequit dici Syſtema, quandiu Clavis Claſſium, characteres Generum, differentiæ Specierum, Synonyma Autorum deficiunt.

I. PETRÆ.

1. VITRECENTES.
Cos.
Quartzum.
Silex.

2. CALCARIÆ.
Marmor.
Spatum.
Schiſtus.

3. APYRÆ.
Mica.
Talcum.
Amiantus.
Aſbeſtus.

II. MINERÆ.

1. SALIA.
Natrum.
Selenites.
Nitrum.
Muria.
Alumen.
Vitriolum.

2. SULPHURA.
Electrum.
Bitumen.
Pyrites.
Arſenicum.

3. MERCURIALIA.
Hydrargyrum.
Stibium.
Zincum.
Viſmuthum.
Ferrum.
Stannum.
Plumbum.
Cuprum.
Argentum.
Aurum.

III. FOSSILIA.

1. CONCRETA.
Saxum.
Tophus.
Stalactites.
Pumex.
Aëtites.
Tartarus.
Calculus.

2. PETRIFICATA.
Helmintholithus.
Entomolithus.
Ichthyolithus.
Ornitholithus.
Zoolithus.
Phytolithus.
Graptolithus.

3. TERRÆ.
Marga.
Ochra.
Creta.
Argilla.
Arena.
Humus.

TERRIS initium facere ſuadet geneſis, ſed repugnant Leges Syſtematis.

Terræ enim omnium conſenſu conſtituunt ordinem naturalem, non igitur dividendæ in diverſas claſſes.

Species congeneres ſepararentur a ſociis. *Argillæ* aliæ apyræ vireſcentes, calcariæ aliæ.

Ochræ tum præcederent Metalla, ante datam ideam Metallorum, quorum tamen progenies ſunt, ne dicam, quod aliæ ad cuprum, ferrum, Wismuthum, &c. aliæ referendæ eſſent.

Species Terrarum aliæ *primitivæ* petris anteponendæ, aliæ *derivativæ*, petris poſtponendæ.

FOSSILIA ſi inter petras & mineras dividerentur, etiam *Tophi* & *Stalactitæ* ad diverſa genera traherentur a genere ſuo naturali.

PETRIFICATA plurima ſubjicerentur *Calcariis* petris, nonnulla *Combuſtibilibus*, pauca *Pyritæ*, *Cupro*, *Bitumini*, &c.

CRYSTALLOS quod ſubjecerim Salibus, ne quemquam offendat, mutet vocem SALIS in *Cryſtalli*, ſi magis placeat, in verbis erimus faciles; Anne idem, utrum dicas Salia ſub Cryſtallorum geneſi determinaſſe figuram, aut Salium elementa conſtitutiva? Sic Selenites a Creta in aqua ſoluta inſtillato acido vitriolico, v. *Act. Berol.* v. 5. 6. inſperſione pulveris terreſtris ſubtiliſſimi in puncto cryſtalliſationis ſalium, lapillos prodire dudum vidit *Boyle.*

I. PETRÆ.

I. HUMOSÆ.
1. Schiſtus.

II. CALCARIÆ.
2. Marmor.
3. Gypſum.
4. Stirium.
5. Spatum.

III. ARGILLACEÆ.
6. Talcum.
7. Amiantus.
8. Mica.

IV. ARENATÆ.
9. Cos.
10. Quartzum.
11. Silex.

V. AGGREGATÆ.
12. Saxum.

II. MINERÆ.

I. SALIA.
13. Nitrum.
14. Natrum.
15. Borax.
16. Muria.
17. Alumen.
18. Vitriolum.

II. SULPHURA.
19. Ambra.
20. Succinum.
21. Bitumen.
22. Pyrites.
23. Arſenicum.

III. METALLA.
24. Hydrargyrum.
25. Molybdænum.
26. Stibium.
27. Zincum.
28. Viſmuthum.
29. Cobaltum.
30. Stannum.
31. Plumbum.
32. Ferrum.
33. Cuprum.
34. Argentum.
35. Aurum.

III. FOSSILIA.

I. PETRIFICATA.
36. Zoolithus.
37. Ornitholithus.
38. Amphibiolithus.
39. Ichthyolithus.
40. Entomolithus.
41. Helmintholithus.
42. Phytolithus.
43. Graptolithus.

II. CONCRETA.
44. Calculus.
45. Tartarus.
46. Ætites.
47. Pumex.
48. Stalactites.
49. Tophus.

III. TERRÆ.
50. Ochra.
51. Arena.
52. Argilla.
53. Calx.
54. Humus.

I. PETRÆ Lapides ſteriles, *nati, e Terreno, cohæſione.*
ſimplices *abſque peregrino (Sale, Sulphure, Mercuriove).*
fixæ, *nec intime menſtruo ſolubiles.*
ſimilares, *particulis temere coadunatis.*
1. HUMOSÆ e Vegetabilium terra *depoſitæ.*
Combuſtibiles, *accenſæ ardentes in cineres.*
Pulvere aceroſo *groſſiore leviore.*
2. CALCARIÆ ex animalium terra.
Penetrabiles *igne & poroſiores evadentes.*
Pulvere farinaceo, *uſtulatæ ſatiſcentes in farinam.*
3. ARGILACEÆ e Maris ſedimento viſcido.
Indurandæ, *igne duriores rigidiores.*
Pulvere lubrico, *ante uſtionem.*
4. ARENATÆ ex Ætheris aqua pluviali *præcipitante.*
Scintillantes *chalybe percuſſæ, duriſſimæ.*
Pulvere ſcabro, *vitri inſtar particulis angulato.*
5. AGGREGATÆ, mixte e *quatuor* (1, 2, 3, 4) *præcedentibus.*
Participantes *itaque particulis conſtitutivis priorum.*
Pulvere diverſo *ſecundum naturam conſtituentium* (1–4).

II. MINERÆ Lapides fœcundi, *nati e Salino, cryſtalliſando.*
Compoſitæ *e Petra prægnante peregrino (Sale, Sulphure, Mercurio).*
Solubiles *intime in appropriato menſtruo (Calces quidem diſſolubiles in terram, at non intime ſolubiles).*
Cryſtallinæ, *certe (antequam adolevere) cryſtalliſando genitæ.*
1. SALIA Lingua *humida dignoſcenda.*
Sapida in *Aqua.*
Sulubilia *Aqua.*
2. SULPHURA Naſo *emuncto dignoſcenda.*
Odora *in Igne & flagrantia.*
Solubilia *Oleo.*
3. METALLA Oculis *claris dignoſcenda.*
Splendida, *in igne fuſilia, ponderoſiſſima.*
Solubilia *menſtruis acidis appropriatis.*

III. FOSSILIA: Lapides ambigui, *nati ex alterutro.*
Modificata *e Petris aut Mineris.*
1. PETRIFICATA.
Signata *figura referente Naturale quoddam.*
2. CONCRETA.
Coagulata *particulis temere conglutinatis.*
3. TERRÆ.
Pulveriſatæ, *nec particulis connatis.*

CLASSIS I.

PETRÆ.

I. HUMOSÆ.

1. SCHISTUS fiſſilis.

II. CALCARIÆ.

2. MARMOR amorphum, effervefcens.
3. GYPSUM amorphum, fixum.
4. STIRIUM fibroſum.
5. SPATUM rhombeum.

III. ARGILLACEÆ.

6. TALCUM ſolidum.
7. AMIANTUS fibroſus.
8. MICA ſquamoſa.

IV. ARENATÆ.

9. COS fragmentis granulatis.
10. QUARTZUM fragmentis angulatis.
11. SILEX fragmentis convexis.

V. AGGREGATÆ.

12. SAXUM particulis heterogeneis mixtis.

PETRÆ natura *eruenda* ex ſua Matre TERRA.
TERRÆ matres *ſunt præprimis quatuor :*
Humus *lutoſa* , *Vegetabilis* , *Combuſtibilis*.
Calx *teſtacea* , *Animalis* , *efferveſcens*.
Argilla *apyra* , *Aquatilis* , *induranda*.
Arena *mobilis* , *Aquatilis* , *indurata*.

I. HUMOSÆ ex Humo Vegetabili , ignitæ ardentes combuſtibiles.
Humus *lente depoſita in aqua* , *ergo horizontalis* fiſſilis.
Argillaceæ *particulæ ſæpe cum Humo* depoſitæ ,
ergo etiam Schiſtus ſæpe ſubargilloſus.
Acidum *minerale paludum ſæpe inquinavit Ferro* ,
ergo uſtulatæ reddunt terram ochraceam rubram.
Accenſæ ardent *vegetabili* , *niſi nimis Metallo inquinatæ.*

II. CALCARIÆ ex Teſtaceis ſ. Lithophytis *in terram* mutatis.
Calx *enim omnis* e Regno Animali *prognata*.
efferveſcentes & ſolubiles acido , *utpote alcalinæ* ,
niſi antea acido ſaturatæ , *uti Gypſum*.
combuſtæ & *aqua exſtinctæ fatiſcunt in* farinam.
vi calcinandi ſ. Petrificandi *multiplicativa pollent* ,
in Humoſis , *vegetabilibus* , *animalibus* , *argillaceis*.

III. ARGILLACEÆ *ex Viſcido* marino in Terram *coacto*.
Raſiles *Tritura lubrica* , *cum e Viſcido molli natæ*.
Indurandæ *in igne aridioreſque evadunt et duriores.*
Apyræ *quondam dictæ*.

IV. ARENATÆ *ex Atomis aquæ* , *in* Arenaceam *ſubſtantiam connatis*.
ortæ ex Aqua æthereo-pluviali.
Particulis duræ *ſcabræ* , *radentes*.
Chalybe ſcintillantes *ob ſoliditatem et duritiem* , *nec aliæ niſi aliquot Spata metallico indurata*.
Vitreſcentes *quondam dictæ*.

V. AGGREGATÆ ex præcedentium *particulis* mixtis.
Induratæ *e terra quacunque* , *poroſæ*.
Interſtitia *cava repleta fuere aqua terreſtri* , *quæ enata in particulos ſolidas addidit miſcelam e Quartzo* , *Spato* , *Mica*.
Igne conſiderandæ *ſecundum qualitates immixtas*.

CLASSIS II.

MINERÆ.

I. SALIA.

13. NITRUM frigido-acidum, eſſentiale.
14. NATRUM amaricans, alcaleſcens.
15. BORAX ſubſapidum, alcaleſcens.
16. MURIA acutum, medium.
17. ALUMEN auſterum, acidum minerale.
18. VITRIOLUM ſtipticum, acidum minerale.

II. SULPHURA.

* *Unctuoſa, Inertia.*

19. AMBRA. Fumo ambroſiaco.
20. SUCCINUM. Fumo ſuaveolenti.
21. BITUMEN. Fumo gravi.

** *Mineraliſata, Metallica.*

22. PYRITES. Fumo acuto, luteo.
23. ARSENICUM. Fumo alliaceo, albo.

III. METALLA.

* *Friabilia*, Semimetalla *vulgo.*

24. HYDRARGYRUM fluidum, ſiccum.
25. MOLYBDÆNUM inquinans, non fuſile.
26. STIBIUM fibroſum, friabile.
27. ZINCUM rimoſo-malleabile.
28. VISMUTUM laminoſo-malleabile.
29. COBALTUM compactum, fragile.

** *Malleabilia*, Metalla *propria dicta.*

30. STANNUM albiſſimum mutum.
31. PLUMBUM cæruleſcens mutum.
32. FERRUM fuſceſcens ſonorum.
33. CUPRUM rufum ſonorum.
34. ARGENTUM albiſſimum ſonorum.
35. AURUM luteum mutum.

MINERÆ omnes cryſtalliſando natæ ſunt, *exceptis ſulphuribus unctuoſis.*

Peregrina *iſta, quæ continent mineræ, ſunt Chemicorum tria, Sal, Sulphur, Mercurius.*

Mineræ *dignoſcendæ a ſuo peregrino denudando, & inde Genera eorumque characteres deducenda, quemadmodum in Plantis ab interna fructificatione.*

SALIA in Aqua ſoluta *criſtalliſantur diminutione vehiculi, quiete, frigore.*

Polyedra, *e planis & rectis angulis eſſe omnia Salia docent eorum Cryſtalli.*

Cryſtalli figuræ *in eodem Genere ſæpe aliquatenus mutantur, neque hoc ſine numine; nihil enim agit, ſine ſufficienti cauſa, Natura, a qua nihil ſupervacaneum, nihil perperam peragitur, quod ſerior Nepotum dies extricabit: Multæ errantes obſervationes per tenebricoſas Naturæ latebras tandem reperiant ejuſdem viam.*

Lapidoſas cryſtallos *ſecundum figuras retuli, quatenus hic dies admiſit.*

Terram *via humida cryſtalliſari poſſe abſque ſale, primum credo dum videro; via ſicca res aliena eſt.*

SULPHURA in igne *dant fumum & flammam, in oleo ſolvuntur, ſcatent etiam ſale, decompoſita.*

Unctuoſa *cum Reſinis Vegetabilium conveniunt in plurimis, ante Vegetabili principio orta.*

Mineraliſata *ſcatent Salino metallico.*

Metalla Regulum *dant nitentem, opacum, in igne fluidum, Molybdæno excepto hodie ignoto.*

Metamorphoſis metallorum *etiamnum latitans fruſtra in Vulcani templo, at potius in Naturæ ſacratiſſimis quærenda; pauci parentes certe plurimos produxere filios alienos; Mars omnino polygamus fuit.*

	pondus. fuſio. amalg.	color.	conſiſtentia.	ſonus.	menſur.
Platinum	22000-9-0	album	- - -	- -	▽R
Aurum	19640-6-1	flavum,	malleabiliſſ. ductile	mutum	▽R
Argentum	11091-5-2	album,	malleabiliſſ. ductile	ſonorum	▽F
Cuprum	8843-7-7	rufum,	malleabile,	ſonorum	▽F
Ferrum	8000-8-8	fuſcum,	malleabile,	ſonorum	▽F
Plumbum	11325-4-3	cærul. alb.	molle,	mutum	▽F
Stannum	7400-3-4	album,	ſtridenti-flexile	mutum	▽R ▽F
Cobaltum	- -	album,	fragile - -	-	▽R ▽F
Viſmutum	9700 - 6	flavo alb.	laminoſo-malleabile,	ſonorum	▽F
Zincum	7000-2-5	album,	rimoſo-malleabile,	ſubſonorum	▽F
Stibium	- - 6-9	albun,	fragiliſſimum	- -	▽F
Hydrargyrum.	13590-1 -	album,	fluidum	mutum	▽F

Qualitas ♂ *nigrans, auſterum, ſtipticum.*

♀ *viride ſ. cæruleum corroſivum.*

Z *album, exſiccans.*

♄ *albidum, dulcificans.*

♁ *rapax, excepto auro*, Lupus Metallorum.

☿ *penetrans, ſalivans, amalgamans*, Servus fugitivus.

CLASSIS III.

FOSSILIA.

I. PETRIFICATA.

* *Vera.*

36. ZOOLITHUS.	*Petrificatum*	Mammalis.
37. ORNITHOLITHUS.	*Petrificatum*	Avis.
38. AMPHIBIOLITHUS.	*Petrificatum*	Amphibii.
39. ICHTHYOLITHUS.	*Petrificatum*	Piſcis.
40. ENTOMOLITHUS.	*Petrificatum*	Inſecti.
41. HELMINTHOLITHUS.	*Petrificatum*	Vermis.
42. PHYTOLITHUS.	*Petrificatum*	Vegetabilis.

** *Ficta.*

43. GRAPTOLITHUS.	*Petrificatum*	ſimulans.

II. CONCRETA.

* *Naturalia.*

44. CALCULUS.	*Concretum intra* Animale.
45. TARTARUS.	*Concretum intra* Vegetabile,
46. ÆTITES.	*Concretum intra* Lapidem.

** *Elementaria.*

47. PUMEX.	*Concretum in* Igne.
48. STALACTITES.	*Concretum in* Aëre.
49. TOPHUS.	*Concretum in* Aqua.

III. TERRÆ.

* *Derivativæ.*

50. OCHRA.	Terra metallica.

** *Primitivæ.*

51. ARENA.	Terra ſcabra.
52. ARGILLA.	Terra plaſtica.
53. CALX.	Terra efferveſcens.
54. HUMUS.	Terra combuſtibilis.

I. PETRIFICATA *Montium calcariorum non filii, ſed parentes ſunt, cum omnis Calx oriatur ab Animalibus.*

Corpora petrificanda *ſunt ſolida, Teſtæ, Oſſa, Ligna.*

Succulenta *deliqueſcunt & corrumpuntur, antequam indureſcant Lapidoſa.*

Occurrunt *per totum orbem, modo Calx adſit, in ſummis Peruviæ montibus exulant.*

Petrificantia varia.

Calx *vi calcifica mutat corpora aliena in calcariam ſubſtantiam* e. gr. *Schiſtum in Marmor. It. wgoth.* 87. Silex *ex Calce connatus, fovet itaque Petrificata.*

Vitriola *ferruminando conglutinant & penetrant:* Tophus marinus *aliique continent interdum Conchilia.*

Schiſtus *ex Humo ſ. Arena offert ſæpe veſtigia rerum impreſſarum ante coaleſcentiam.*

Succinum *proprie huc non referendum, cum contineat & ab aëris corruptione præſervet incluſa olim corpora intra Reſinam.*

MODI

TRANSUBSTANTIATA, *quæ tota materia, præprimis externa immutata, perſtitere.*

Redintegrata, *ex iis, quæ ætate evanuerunt relicta cavitate & hac dein referta materia lapideſcente in formam impreſſam, Hyſterolithus.*

IMPRESSA, *ubi corpus petrificans compreſſum retinet figuram impreſſis Ichthyolithus, Phytolithus.*

INCRUSTATA, *more Stalactitæ, ab aqua calcaria inprimis thermali; hæc vix Petrificata ſubeant cum ejuſmodi arte ſ. injectione corporum efficiantur, quotquot volupe erit.*

FOSSILIA, *vulgo dicta, ſunt Teſtæ ſ. Oſſa ſolo glutine ab ævo orbata, Teſtacea, Lithophyta, Ligna.*

Specificum nomen *Animalis aut Plantæ addatur, ubi liquet; noſcat igitur Ectypum animale ſ. vegetabile, qui dignoſcat protypum lapideum; diſtincta obſervabis, dubia extricabit, relinquendo quiſquilias.* Juvat *Deperdita Teſtacea & Lithophyta diſtincte proponere, quæ vel illuſtrant Naturæ cognitionem, vel Terræ geneſin; cæterum coarctet ſteriliorem ſcientiam.*

Geſneri Joh. de Petrificatis. *Lugdb.* 1758. *oct. opt.*

II. CONCRETA, *in his determinatur ſubſtantia coagulata, Ochracea, Marmorea, Gypſea, Stiriata, Spatoſa, Argillacea, &c.*

III. TERRÆ pulvereæ *ſunt Petrarum matres, pauciores earum filiæ.*

PRIMITIVÆ *ſ. Primigeniæ, quæ ex Elementis, Animalibus aut Plantis Regno Lapideo illatæ fuere.*

DERIVATIVÆ, *quæ a Lapidibus pulveriſatis exortæ ſunt.*

Hæc hactenus B. LINNÆUS, *cujus verba ſtudio nullibi interpolavi, ne mutilaſſe vel adulteraſſe videar, quæ augere atque emendare ſerioribus obſervationibus monitus omnem operam navavi.*

Plurima ſcilicet ſunt, quæ ut ab ordine, a B. *Viro* ſtabilito, diſcedam, ſuadent & jubent, ut tamen in enumerandis ſpeciebus & citandis earum ſynonymis mineralium a Linnæo denominatorum mentionem injiciam, & aliqua ejus genera parum certe immutata retineam.

Primo Claſſium Partitio naturæ minus conſentanea, & Foſſilium Claſſis expungenda, mihi quidem, videtur, quæ enim huic ſubjiciuntur mineralia, aut nequaquam ſpectant ad regnum minerale, quippe in vegetabilibus animalibuſque ſecundum aut præter naturam genita, quemadmodum tartarus & calculus, aut non vera ſua indole notiſque eſſentialibus, verum nunc naſcendi modo, nunc forma externa a reliquis diſcrepantia, quemadmodum cetera, quæ vocat B. Vir Concreta & Petrificata, aut lapidibus petriſve, ex quibus fatiſcentibus oriuntur, aut quas accumulata & coagmentata gignunt, quemadmodum plurimæ terræ, aut metallis, quemadmodum ochræ, juſtius accenſentur.

Quum in diſtribuendis per claſſes & ordines mineralibus, modi quo generantur, ſuamque, qua nobis ſeſe offerunt, formam induunt, & originis ipſius nullam habendam eſſe rationem, contendam, nollem ex eo concludi, me contemplationem iſtarum Naturæ nunquam quieſcentis virium nauci habere, aut petrificatorum, uti quidam appellare geſtiunt, enarrationem inutilem; illa Sapiente digniſſima tot egregiis obſervationibus naturalem ditavit ſcientiam, hæc, etſi hinc inde in inanem micrologiam degeneraverit, novas haud raro, nullibi certe, quantum quidem novimus, in omni terrarum orbe, in primitivo ſuo ſtatu hactenus obvias, forſan deperditas & ex vivorum corporum indice deletas animalium vegetabiliumque ſpecies oſtendit, aliorum atque aliorum mutatam eſſe patriam teſtatur, montium multorum, potiſſimum calcariorum originem, atque alternationes in omni telluris noſtræ ſuperficie per multorum ſeculorum ſeriem factas aperte loquitur.

At quum origo multorum mineralium & naturæ vis, cujus efficacia producta ſunt, dubia ſit, ſatius mihi videtur, ab hoc lubrico partitionis fundamento abſtinere; non enim exercitatis in rerum natura ſcrutanda viris ejuſmodi opera, verum tironibus potiſſimum inſerviunt, quibus maxime opportunæ & facilime obviæ notæ in dignoſcendis mineralibus potius conducunt. Addam tamen appendicis in modum Catalogum corporum tum vegetabilium tum animalium inter mineralia inventorum, excluſis tamen iis, quæ nequaquam aut parum mutata infra terram occurrunt.

Neque video, quidni ſinguli ordines, quos B. Autor alteri claſſi ſubjicit, totidem claſſes conſtituant; certe non arridet ratio hujus diſtributionis ab eo ipſo reddita, neque majus intercedit diſcrimen inter metalla & petras, quam quidem inter metalla & ſalia.

Inter metalla molybdænæ genus in tria dirimendum, nempe Molybdænæ, Magneſiæ & Witframi, reſtituendum huic Claſſi Arſenicum & præterea addenda genera Uranii, Niccoli & Platinæ.

Sulphurum f. Phlogiſtorum mineralium claſſi adjicienda adhuc genera Graphitæ & Mellitæ. Salibus genera Ammoniaci, Vitriolati, Amari, & exterminanda omnia, quæ, quamvis forma externa quodammado accedunt ad ſalia, charectere tamen eorum, quem ipſe *Linnæus* eſſentialem agnovit, ſapore & ſolubilitate in aqua carent, omnibuſque reliquis notis petris ſimiles.

Petræ dividendæ mihi potius videntur, ſecundum terram, quæ non quidem copia, ſed ita ſemper in iis dominatur, ut characterem præcipuum imprimat 1) in talcoſas, in quibus multum magneſiæ albæ hæret. 2) in ponderoſas, quæ terram ponderoſam principem agnoſcunt. 3) in calcareas, in quibus calx dominatur. 4) in argillaceas, in quibus terra ab alumine denominata eminet. 5) in ſiliceas, in quibus terra vitreſcibilis potiorem partem efficit. 6) in adamantinas, in quibus terra ſpathi adamantini occurrit. 7) in aggregatas, ex petris præcedentium ordinum compoſitas.

I. TERRÆ.

1. MACRÆ.
Humus.
Creta.

2. PINGUES.
Argilla.
Marga.

3. MINERALES.
Salinæ.
Sulphureæ.
Metallicæ.

4. ARENACEÆ.
Arena.
Glarea.
Metallicæ.
Animales.

II. LAPIDES.

1. CALCARII.
Calcareus.
Marmor.
Gypſum.
Spatum.

2. VITRESCENTES.
Fiſſilis.
Cos.
Silex.
Petroſilex.
Quartzum.
Cryſtallus.

3. APYRI.
Mica.
Talcum.
Ollaris.
Corneus.
Amiantus.
Asbeſtus.

4. SAXA.
Simplicia.
Mixta.
Griſea.
Petroſa.

III. MINERÆ.

1. SALIA.
Vitriolum.
Alumen.
Nitrum.
Muria.
Alcalia.
Acida.
Neutra.
Ammoniacum.
Borax.

2. SULPHURA.
Bitumen.
Succinum.
Ambra.
Sulphur.

3. SEMIMETALLA.
Hydrargyrum.
Arſenicum.
Cobaltum.
Antimonium.
Wismuthum.
Zincum.

4. METALLA.
Ferrum.
Cuprum.
Plumbum.
Stannum.
Argentum.
Aurum.

IV. CONCRETA.

1. PORI.
Ignei.
Aquei.

2. PETRIFICATA.
Vegetabilia.
Corallia.
Animalia.
Teſtacea.

3. FIGURATA.
Lithomorphi.
Lithoglyphi.
Lithotomi.

4. CALCULI.
Vegetabilium.
Animalium.

Primus ſpecies in Regno lapideo rite determinavit.

Analyſin lapidum pulchre reſolvit.

Qui Sulphureas montium exhalationes (Bergſchwaden) intelligit ac Matrices Metallorum concipit, eum non latebit Metallorum geneſis 224.

Mephitis terreſtris ſalium pater judicatur 180.

Lapides primævos inter reliquos etiamnum occurrere admittit e. gr. jaſpides 101, Quartzi ſpecies 106, Micas 132.

I. TER-

I. TERRÆ.

1. MACRÆ.
Humus.
Calcareæ.
Gypſæ.
Manganenſes.

2. TENACES.
Argilla.
Marga.

3. MINERALES.

4. DURÆ.
Glarea.
Tripela.
Carmentum.
Arena.
Ar. metallica.
Ar. animalis.

II. LAPIDES.

1. CALCAREI.
Calcareus.
Marmor.
Spatum.

2. Gypſum.
Fluor mineralis.

2. VITRESCENTES.
Cos.
Spat. ſcintillans.
Quartzum.
Gemma.
Granatus.
Silex.
Petroſilex.
Achates.
Jaſpis.

3. FUSIBILES.
Zeolithus.
Baſalthes.
Magneſia.
Schiſtus.
Margodes.
Corneus.

4. APYRI.
Mica.
Talcum.
Steatites.
Serpentinus.
Ollaris.
Asbeſtus.
Amiantus.

5. Saxa.
mixta.
aggregata.

III. MINERÆ.

1. SALIA.
Acida.
Vitriolum.
Alumen.
Nitrum.
Muria.
Natron.
Alc. volatile.
Neutra.
Ammoniacum.
Borax.

2. SULPHURA.
Bitumen.
Succinum.
Ambra.
Sulphur.

3. SEMIMETALLA.
Mercurius.
Arſenicum.
Cobaltum.
Niccolum.
Antimonium.
Wismuthum.
Zincum.

4. METALLA.
Ferrum.
Cuprum.
Plumbum.
Stannum.
Argentum.
Aurum.
Platina.

IV. CONCRETA.

1. PORI.
ignei.
aquei.

2. PETRIFICATA.
Vegetabilia.
Corallia.
Zooli.
Helmintholithi.
—— teſtaceorum.
Entomolithi.
Amphibiolithi.
Ichthyolithi.
Ornitholithi.
Zoolithi.
Anthropolithi.

3. FIGURATA.
Lithomorphi.
Lithoglyphi.
Lithotomi.

4. CALCULI.
vegetabilium.
animalium.

I. TERRÆ.

1. ARGILLOSÆ.
   - Argilla.
   - Humus.
2. ALCALYNÆ.
   - Creta.
   - Marga.

II. LAPIDES.

1. VITRESCENTES.
   - Gemma.
   - Cryſtallus.
   - Quartzum.
   - Arenarius.
   - Corneus.
   - Spat. vitreſcens.
   - Saxum.
   - Pumex.
2. ARGILLOSI.
   - Smectis.
   - Asbeſtus.
   - Talcum.
   - Mica.
   - Schiſtus.
3. GYPSEI.
   - Gypſus.
   - Alabaſtrum.
   - Spat. gypſeum.
4. ALCALINI.
   - Calcarius.
   - Marmor.
   - Spat. alcalin.
   - Tophus.
   - Stalactites.
   - Margodes.

III. SALIA.

1. ACIDA.
   - Acidum purum.
   - Vitriolum.
   - Alumen.
2. ALCALINA.
   - Alcali fixum.
   - Alcali volatile.
3. MEDIA.
   - Natrum.
   - Nitrum.
   - Sal commune.

IV. BITUMINA.

1. FLUIDA.
   - Oleum montan.
2. SOLIDA.
   - Ambra.
   - Succinum.
   - Pix montan.
   - Sulphur.

V. SEMIMETALLA.

1. FLUIDA.
   - Hydrargyrum.
2. SOLIDA.
   - Antimonium.
   - Zincum.
   - Bismuthum.
   - Arſenicum.

VI. METALLA.

1. NOBILIA.
   - Aurum.
   - Argentum.
2. IGNOBILIA.
   - Cuprum.
   - Ferrum.
   - Stannum.
   - Plumbum.

VII. PETREFACTA.

1. SANGUINEORUM.
   - Zoolithus.
   - Ornitholithus.
   - Ichthyolithus.
2. INSECTORUM.
   - Entomolithus.
   - Gammarolithus.
   - Echinites.
   - Encrinus.
   - Caput meduſæ.
3. TESTACEORUM.
   - Tubulites ſimplex.
   - — polythalamius.
   - Cochlites.
   - — polythalamius.
   - Conchites.
4. VEGETABILIUM.
   - Stelechites.
   - Lithoxylum.
   - Lithobiblion.
   - Carpolithus.
   - Phytolithus.
5. MARINORUM.
   - Corallites.
   - Porites.
   - Fungites.

Humum ex vegetabili vel animali ortam ſenſim in Argillam tranſire, (quod eget demonſtratione) n 6.

Saxum omne chalybe percuſſum ſcintillas dare n. 13.

Pumicem vulcani progeniem non eſſe n. 14.

Atramentarius lapis e vitriolo eroſo provenit n 24.

Cobaltum conjungitur genere cum Arſenico n. 30.

Ferrum nativum verum nunquam exſtitit n. 34.

Linnæus certe omnium primus, ſecundum leges ſyſtematicas, in claſſes & ordines redigere Mineralogiam tentavit *Præf.*

Spatum dividit inter 3 diverſiſſima genera, imo ordines; in Vitreſcens, Gypſeum, Alcalinum.

I. TERRÆ.

1. DISSOLUBILES.
Argilla.
Marga.
Smectis.
Moachtus.
Tripela.

2. INDISSOLUBILES.
Creta.
Lithomarga.
Arena.

II. LAPIDES.

1. LAMELLOSI.
Spatum.
Mica.
Talcum.

2. FILAMENTOSI.
Amianthus.
Asbeſtus.
Inolithus.

3. SOLIDI.
Silex.
Quartzum.
Calcareus.
Gypſeus.
Fiſſilis.
Smectis.

4. GRANULATI.
Arenarius.
Jaſpis,

III. SALIA.

1. ALCALIA.
Alcali fixum.
Alcali volatile.

2. ACIDA.
Acid. vitriolicum.
— nitroſum.
— muriaticum.

3. MEDIA.
Muria.
Natrum.
Nitrum.
Ammoniacum.

4. STYPTICA.
Alumen.
Vitriolum.

IV. INFLAMMABILIA.

1. GENUINA.
Bitumen.
Sulphur.

2. SPURIA.
Humus.

V. SEMIMETALLA.

1. non MALLEABILIA.
Wismuthum.
Cobaltum.
Arſenicum.
Antimonium.

2. SUBMALLEABILIA.
Zincum.

3. FLUIDA,
Mercurius.

VI. METALLA.

1. FLEXILIA.
Plumbum.
Stannum.

2. DURA.
Cuprum.
Ferrum.

3. FIXA.
Argentum.
Aurum.

VII. HETEROMORPHA.

1. PETREFACTA VERA.
Antropolithus.
Zoolithus.
Ornitholithus.
Ichthyolithus.
Amphybiolythus.
Entomolithus.
Helmintholithus.
Zoophytolithus.
Conchyliolithus.
Coralliolithus.
Phytolithus.

2. PETREFACTA SPURIA.
Typolithus.
Metrolithus.
Incruſtatum.
Induratum.
Terrefactum.

3. FIGURATA;
Lithomorphus.
Lithoglyphus.

I. METALLA.

1. NOBILIA.
Aurum.
Argentum.
2. IGNOBILIA.
Cuprum.
Ferrum.
Stannum.
Plumbum.

II. SEMIMETALLA.

Argentum vivum.
Antimonium.
Vismuthum.
Zincum.
Arſenicum.

III. PHLOGISTICA.

1. FLUIDA.
Bitumen.
2. DURA.
Lithanthrax.
3. MINERALISATA.
Sulphur.

IV. SALIA.

1. ACIDA.
Vitriolum.
Alumen.
2. ALCALIA.
Fixa.
Volatilia.
3. MEDIA.
Muria.
Nitrum.
Borax.
Ammoniacum.

V. PETREFACTA.

1. ANIMALIA.
Terreſtria.
Aquatica.
2. PLANTÆ.
Terreſtres.
Marinæ.
3. OBSCURA.
Belemnites.
Hyſterites.
Judiaicus.
Aſteria.
Bufonites.
Oolithus.
4. FIGURATA.
Aetites.
5. CRYSTALLI.
Quartzoſi.
Gypſei.
Spatoſi.

VI. TERRENA.

1. NOBILES.
Adamas.
Sapphirus.
Smaragdus.
Amethyſtus.
Topazius.
Turcois.
Opalus.
Chryſolithus.
Hyacinthus.
2. SEMINOBILES.
Cryſtallus.
Carneolus.
Achates.
Chalcedonius.
Onyx.
Sardonyx.
Malachites.
Lazuli.
3. APYRI ignobiles.
Talcum.
Mica.
Molybdæna.
Vitrum moſchow.
Steatites.
Corneus.
Jaſpis.
Asbeſtus.
4. CALCARII.
Marmor.
Gypſum.
Spatum.
5. VITRESCENTES.
Cos.
Quartzum.
Silex.
Schiſtus.
Serpentinus.
Tripela.
Pumex.
Granites.
Saxum.
Argilla.
Marga.
Limus.
Umbra.

Cobolum speciem eſſe arsenici ſtatuit.

I. TERRÆ.

1. CALCAREÆ.
Puræ.
Vitrioliceæ.
Phlogiſticæ.
Argillaceæ.

2. SILICEÆ.
Adamas.
Sapphirus.
Topazius.
Smaragdus.
Quartzum.
Silex.
Jaſpis.

3 GRANATINÆ.
Granatus.
Baſaltes.

4. ARGILLACEÆ.
Porcellana.
Lithomarga.
Bolus.
Tripolitana.
Argilla.

5. MICACEÆ.
Mica pura.
Mica martialis.

6. FLUORES.
Indurati.

7. ASBESTINÆ.
Asbeſtus.
Amiantus.

8. ZEOLITHICÆ.
Zeol. purus.
Zeol. metallicus.

9. MAGNESIÆ.
Magneſia terrea.
Magneſia indurata.

II. SALIA.

1. ACIDA.
Vitriolum.
Muria.

2. ALCALINA.
Fixa.
Volatilia.

III. PHLOGISTICA.

Ambra.
Succinum.
Petroleum.
Sulphur.
Phlogiſtic. terreum.
— metallicum.

IV. METALLA.

1. PERFECTA.
Aurum.
Argentum.
Platina.
Stannum.
Plumbum.
Cuprum.
Ferrum.

2. SEMIMETALLA.
Hydrargyrum.
Wismuthum.
Zincum.
Antimonium.
Arſenicum.
Cobaltum.
Niccolum.

Syſtema eſt mere Metallurgicum, e principiis Cheminis petitum, proprium nec compilatum.

Excluduntur genera plura, *Cos*, *Schiſtus*, *Humus*, *Tophus*, *Stalactites*, *Aëtites*, *Calculus*, *Nitrum*. Appendici inſeruntur *Saxum*, *Pumex*, *Petrificata*.

Terras dari ſtatuit *Siliceam*, *Granatinam*, *Micaceam*, *Magneſiam*, *Zeolithicam*, *Chryſolampadis*.

Cryſtallos negat a Salibus oriri; figuras earum magis curioſas quam utiles judicat, quum in cryptis exſtruendis nullus numerat earum latera, Terras etiam poſſe aſſumere figuram cryſtallinam absque ſale, dari cryſtalliſationes metallorum fuſione, ergo cryſtallorum cauſam non a ſalibus.

Colores Gemmarum a Metallis originem ducere dubitat.

Calces exſtitiſſe credit ante vitarum & plantarum exiſtentiam.

Strata terræ negat conformia eſſe.

Definitiones characteriſticas inutiles judicat, ſufficere noſſe.

I. TERRÆ.

1. ARGILLACEÆ.
Argilla.
Bolus.
Limus.
Smectis.
Lithomarga.
Tripela.

2. CALCARIÆ.
Creta.
Lac lunæ.

3. SILICEÆ.
Arena.

4. MARGACEÆ.
Marga.

5. SELENITICÆ.
Farina foſſilis.
Terra ſpatoſa.
Nihil foſſile.

6. TALCOSÆ.
Terra talcoſa.

7. MICACEÆ.
Mica ☉, ☽.
Vitr. ruſſicum.
Molybdæna.

8. INFLAMMABILES.
Sulphureæ.
Bituminoſæ.
Umbra.

9. SALINÆ.
Vitriolicæ.
Alüminoſæ.
Nitroſæ.
Muriaticæ.

10. METALLICÆ.
☉, ☽, ♄, ♃, ♀, ♂.
♂ mica.
Ochra ♂, ♀.
Cadmia.
Cobolti 🜁.
Arſenici 🜁.
Mercurialis 🜁.

11. HUMUS.
Ruralis 🜁.

II. LAPIDES.

1. ARGILLACEI.
Steatites.
Nephriticus.
Serpentinus.

2. CALCAREI.
Calcarius L.
Suillus L.
Stephani L.
Marmor.
Quadrum.
Armenius.

3. MARGACEI.
Dendrites.
Gypſeus.
Tophus.

4. SELENITICI.
Gypſum.
Alabaſtrum.

5. PYROMACHI.
Cos.
Silex.
Corneus.
Quartzum.

6. SCHISTOSI.
Argilloſi.
Calcarii.
Metallici.
Aluminoſi.

7. FOLIOSI.
Micacei.
Spatoſi.
Pſeudogalena.

8. PLUMOSI.
Amiantus.
Asbeſtus.

9. SALINI.
Atramentarius.
Aluminoſus.
Sal cæduum.

10. METALLICI.
☽, ♄, ♂, ♃, ♀, Z.

11. FUSILES.
Pumex.
Zeolithus.

12. PETRÆ.

13. NOVI.
Trip.

III. PETRIFICATA.

1. ANIMALIA.
Antropolithus.
Zoolithus.
Ornitholithus.
Entomolithus.
Ichthyolithus.
Helmintholithus.
Amphibiolithus.
Zoophytolithus.

2. PHYTOLITHA.
Phytotypolithus.
Lithoxylon.
Rhizolithus.
Lithocalamus.
Lithophyllum.
Carpolithus.

3. LITHOPHYTA.
Madrepora.
Millepora.
Tubipora.
Keratophyta.

4. LITHOTOMI.
Aëtites.
Variolithus.

5. PORI.
Tophus.
Stalactites.
Incruſtatum.

IV. SALIA.

1. STYPTICA.
Vitriolum.
Alumen.

2. FOSSILIA.
Nitrum.
⊖ amarum.
Tincal.

3. INDURANDA.
Muria.

4. VOLATILIA.
Ammoniacum.
Arſenicum.

5 ALCALIA.
⊖ perſicum.
Aphronitrum.
⊖ cretæ.

V. COMBUSTIBILIA.

1. SULPHURA.
Sulphur.

2. BITUMINOSA.
Bitumen.
Gagas.
Succinum.
Copal.
Ambra.
Lithanthrax.

3. SEVUM.

4. BALSAMUM.

VI. METALLA.

1. PERFECTA.
Aurum.
Argentum.
Plumbum.
Stannum.
Cuprum.
Ferrum.

2. SEMIMETALLA.
Zincum.
Viſmuthum.
Antimonium.
Cobaltum.
Mercurius vivus.
Platina.

Arsenicum ad ſalia refertur.

I. METALLA.

1. PERFECTA.
   a. Fixiora.
   Aurum.
   Platina.
   Argentum.
   b. minus fixa.
   Plumbum.
   Cuprum.
   Ferrum.
   Stannum.
   Zincum.

2. IMPERFECTA.
   Mercurius.
   Viſmuthum.
   Niccolum.
   Arſenicum.
   Antimonium.
   Cobaltum.
   Magneſia.
   Molybdæna.
   Wolframum.

II. SALIA.

1. EX ACIDO ET METALLO CONFLATA.
   Vitriola vulgaria.
   Argentum corneum.
   Mercurius ſublimatus.
   Flos cobalti.
   Flos viſmuthi.
   Pſeudogal. phoſphoreſc.
   Spatum plumbi.
   Ferrum aquar. mineral.

2. EX ACIDO ET ALCALI MINERALI CONFLATA.
   Muria.
   Sal Glauberi.
   Borax.

3. EX ACIDO ET ALCALI VEGETAB. CONFLATA.
   Nitrum.

4. EX ACIDO ET ALCALI VOLATILI CONFLATA.
   Ammoniacum.

5. EX ACIDO ET TERRIS CONFLATA.
   ⊖ amarum.
   Alumen.
   Sal cretæ.
   Sal ſedativum.
   Gypſum.
   Spat. ponderoſum.
   Fluor mineralis.

6. EX ACIDO ET INFLAMMABILIBUS CONFLATA.
   Acidum vitr. nat. Sienenſe.
   Mineræ arſenici.
   Sulphur.
   Succinum.
   Auripigmentum.
   Riſigallum.

7. ALCALIA.
   minerale.
   vegetab. aq. mineralium.

III. TERRÆ.

1. *Simpliciores.*
   a. Siliceæ.
   α. quartzoſæ.
   Adamas.
   Rubinus.
   Sapphirus.
   Topazius.
   Barydus.
   Smaragdus.
   Chryſolithus.
   Turmelinus.
   Hyacinthus.
   Granatus.
   Amethyſtus.
   Praſius.
   Morion.
   Cryſtallus.

Quartzum diaphanum.
Petref. quartzoſa.
Vitra vulcania.
β. corneæ.
Nephriticus.
Chalcedonius.
Carneolus.
Onyx.
Sardonyx.
Oculus felis.
Sapis ophthalmius.
Achates.
Pyromachus.
Corneus.
Petrefacta.
Lavæ corneum æmul.
γ. jaſpideæ.
Heliotropius.
Sil. ægyptius.
Jaſpis nigr.
Petrefact.
Lav. jaſp. æmul.
b. Aluminares.
Terr. alum. nativ.
Corium montan.
Suber montan.
Lithomarga.
Terr. porcellana.
Terra fiſtularia.
Bolus.
Terr. miracul. Saxon.
Terra fullon.
Argill. efferveſc.
Umbra.
Rubrica.
Mica.
Schorl.
Cret. nigr.
Schiſt. pur.
Jaſp. immatur.
Petrefact. alum.
Lavæ alum.
c. Muriaticæ.
Tripela.
Cret. hiſpanic.
Cret. brianzon.
Steatites.
Serpentinus.
Ollaris.
Talcum.
Asbeſtus.
Pumex.
Lap. filtrar.
d. Calcariæ.
α. Puræ.
Agaric. mineral.
Creta.
Oſteocolla.
Lap. travertin.
Calcarius.
Lumachella.
Marmor alb.
Spatum calcar.
Stalactit. calcar.
Petrefact. calcar.
β. Mixtæ.
a. acidis.
Alabaſtrum.
Gypſum.
b. metallis.
Turcoſa.
Malachites.
Ferrum ſpatoſum.
Stann. ſpatoſum.
c. inflammabilibus.
Suillus.
Waſſerblende.
Marm. variegat.
2. Compoſitæ.
a. bigenaræ.
α. ex terra ſilicea & caluminari.
Opali.
Oculus mundi.
Chryſopras.
Spatum ſcintillans.
Quartzum pingue & opacum.
Jaſpis variegata.
Poudingſtone.
Porphyrius.

Granites.
Gneiſſum.
Murckſtein.
Lapis ſtraterius.
Lap. filtr. ſpurius.
Lap. arenæ vulg.
Arena vulgaris.
Argilla communis.
Brecciæ nonnullæ.
Lavæ nonnullæ.

β. ex terra ſilicea & muriatica.
Lapis amygdalinus.
Ophites.
Brecciæ nonnull.
Lavæ nonnullæ.

γ. ex terra ſilicea & calcaria.
Lapis amygdal. nucl. calcariis.
Lapis lazuli.
Lapis piceus.

δ. ex terra alumin. & muriat.
Peperino.
Cæmentum.
Terra puzeolana.
Lavæ nonnullæ.

ε. ex terra alumin. & calcaria.
Spatum ponderoſum.
Margæ.
Ardeſia impura.

ζ. ex terra muriatica & calc.
Aſchengebirge.
Salzſtein.
Tophi thermarum.

b. trigeneræ.

α. ex terra ſilicea, alumin. & muriatica.
Baſaltes.
Schiſti nonnulli.
Brecciæ nonnullæ.

β. ex terra ſilicea, alum. & cal.
Zeolithus.
Fluor mineral.
Brecciæ nonnull.
Lutum commune.

γ. ex terra ſilicea, muriatica & calcar.
Peperino di Marino.
Grünſtein.
Breccia rupeſtr. ciner.
Schiſti nonnulli.

δ. ex terra alumin. muriat. & calcar.
Trapezium.
Cos.
Schiſtus vetuſtus.
Brecciæ nonnull.

c. quadrigeneræ, ex terra ſilicea, aluminari, muriat. & calcaria.
Porphyrellus.
Saxum metalliferum.
Brecciæ nonnullæ.
Humus.

IV. INFLAMMABILIA.

1. *Sulphura.*
2. *Petrolea.*
3. *Succina.*
4. *Bitumina.*

I. SALIA.

1. ACIDA.
   vitriolicum.
   nitroſum.
   muriaticum.
   fluoris mineral.
   arſenici.
   molybdænæ.
   lapidis ponderoſi.
   phoſphori.
   boracis.
   ſuccini.
   aëreum.
2. ALCALIA.
   minerale.
   volatile.
3. NEUTRA.
   Nitrum.
   Sal digeſt. Sylv.
   Sal Glauber.
   Nitr. quadrangul.
   Sal commune.
   Sal ſecret. Glaub.
   Nitrum flammans.
   Sal ammoniacum.
   Borax.
   Alcalia atrata.
4. TERRESTRIA.
   Spatum ponderoſ.
   Spat. ponderoſ. muriat.
   Gypſum.
   Nitrum calcar.
   Sal ammon. fixum.
   Calx aërata.
   Sal amarum.
   Magneſia ſalit.
   Magneſia nitrata.
   Magneſia aërata.
   Alumen.
5. METALLICA.
   Vitriol. cupri.
   Vitriol. ferri.
   Ferrum aërat.
   Vitriol. Zinci.
   Vitriolum niccoli.
   Magneſium ſalit.
6. TRIPLICIA.
   Sal commun. magneſ. ſalit. inquinat.
   Sal amar. vitriolo mart. inquinat.
   Alumen vitr. mart. impurum.
   Alum. vitriol. cobalt. inquin.
   Vitriol. cupri ferreum.
   Vitriol. ferri niccol. inquinat.
   Vitriolum cupri ferreo & zincino inquin.

II. TERRÆ.

1. PONDEROSA.
   aërata.
   vitriolata.
   petroleo imbut. Lap. hepatic.
2. CALX.
   aërata.
   aërata, petrol. imb. Lap. ſuill.
   fluorata. Flav.
   ac. pecul. imb. Lap. ponder.
   aërata magn. ſalit. inquin.
   aërata argillac. inquin.
   aërata ſiliceo inquin.
   aërata argill. & ſilic. inquin.
   aërata ferro & magn. inquin.
3. MAGNESIA.
   aërata ſilic. adunat.
   ſiliceo intim. adunat.
   argillac. ſilic. & pyrit. adun.
   argill. ſilic. pyrit. & petrol. adun.
4. ARGILLA.
   ſiliceo adunata. Porcell.
   ſilic. & mart. adunata.
   ſiliceo & calcar. adunat.
   ſiliceo & magneſ. adunat.
   Sulphoris acid. & alc. veget. inquinata.
   ſiliceo, pyritaceo & petrol. inquin.

ſiliceo infra ponder. dimid. & paux. calc. unit. Gemma.
ſilicea dimid. part. & paux. cal. aër. mixt. Schoerl.
ſilicei dimidiæ partit & paux. calc. laxe unit. zeolithus.
ſiliceo copioſo & magneſ. unit. Mica.

5. SILICEA.
argill. & calc. parciſſ. Quartzum.
argillæ adunat. Chalcedonius &c.
argill. valde martial. adun.
martiali gravidata.
argill. & paux. calc. unit.
argill. & paux. magneſ. adun.
magneſ. calc. ſituorat. & aërat. cupro ferroque calcinat. adunat. Chryſopraſus.

III. BITUMINA.

1. SULPHUR.
commune.
Plumbago.
Molybdænum.
2. PETROLEUM.
3. ADAMAS.

IV. METALLA.

Aurum.
Platina.
Argentum.
Hydrargyrum.
Plumbum.
Cuprum.
Ferrum.
Stannum.
Viſmuthum.
Niccolum.
Arſenicum.
Cobaltum.
Zincum.
Antimonium.
Magneſium.

APENDIX I.
Combinationes.
I. Duplices.
1. Salinicum.
Salino.
terreſtri.
bituminoſo.
metallico.
2. terreſtris, cum.
terreſtri.
bituminoſo.
metallico.
3. bituminoſi cum.
bituminoſo.
metallico.
4. metallici cum.
metallico.
II. Triplices.
1. Salini cum.
terreſtri & bituminoſo.
terreſtri & metallico.
bituminoſo & metallico.
2. terreſtris cum.
bituminoſo & metallico.
III. Quadruplices.
Salini cum.
terreſtri, bituminoſo & metallico.

APENDIX. II.
Petrefacta.
Calx ſalina ſub form. organ.
Ferrum ſalinum ſ. f. o.
Calx. aërata ſ. f. o.
Argilla ſ. f. o.
Terra ſilicea ſ. f. o.
Terra organica.
Petroleum corpora organica imbuens.
Argentum ſub f. organ.
Hydrargyr. ſ. ſ. o.
Cuprum ſ. ſ. o.
Ferrum ſ. f. o.
Zincum ſ. f. o.

I. TERRÆ.

1. CALX.
pura.
aërata.
Spatum.
pellucidum.
opacum.
Stalactites.
Tophus.
Incruſtata.
Petrefacta.
Agaricus mineralis.
Creta
Calcarius.
Oolithus.
Lapis portlandicus.
Schiſtus calcarius.
Marmor.
vitriolata, Gypſum.
Selenites.
Alabaſtrum.
fluorata. Fluor mineralis.
pellucidus.
opacus.
acido wolframi nupta.
Lapis ponderoſus.
magneſiæ nupta.
Spatum compoſitum.
Lapis Creuzenwaldenſis.
Argillæ mixta.
Marga.
Lapis travertinus.
terræ ponderoſæ mixta.
terræ ſilicea mixta.
Spatum ſtellatum.
Arenarius calcarius.
petroleo impraegnata.
Suilus.
pyritæ mixtus.
ferro junctus.
ferro & lapid ponderoſo mixtus.
compoſitæ.
ex meris calcareis.
ex calcareis & bariticis.
ex calcareis & muriaticis.
Marmor glandul. ſerpent.
Pietra talchina.
Verde antico.
ex calcariis & argillis.
cum Schiſto.
marmor campanum.
florentinum.
cipolinum Rom.
Gniotte.
Amygdalites.
cum mica.
Cipolinum Autun.
Calcarius micaceus.
ex calcariis & ſiliceis.
ex calcariis & quartzo.
Quartzo & Puddingſt. calcareum.
Calcareus cum venis quartzi.
ex calcariis & lavis.
Civerchina.
Marmor cum venis lavæ.
ex calcariis & pluribus aliis.
Quartzo ſpat. ſcint. & mica calce connexa.
Calcar. cum ven. ſchoerl. & mic.

2. BARITES.
aërata.
vitriolata.
fluorata.
acido wolframi nupta.
terræ ſiliceæ ferroque mixta.
terræ ſiliceæ, & petrol. mixta.
Lapis hepaticus.

3. MAGNESIA.
aërata.
pauciſſimæ terræ peregrinæ, mixta.
ſiliceæ. Spuma maris.
calcariæ & ferro.
argillæ, talco & ferro.
quadruplo terræ ſiliceæ & pauciſſ. argill.

Steatites.
Lapis ſaponarius.
Ollaris.
terræ ſiliceæ, calcar. & pauciſſ. argill. & ferro.
Amiantus.
Suber montanum.
terræ ſiliceæ, calcariæ, ponderoſæ, argillæ & ferro.
Amiantus.
pura.
æquali ſiliceæ fere, $\frac{1}{3}$ arg. $\frac{1}{4}$ aq. $\frac{1}{10}$–$\frac{1}{5}$ ferr.
Serpentinus.
duplo ſiliceæ, & æqual. fere argill.
Talcum.
Vitr. moſcoviticum.
fluorata.
acido wolframi nupta.
compoſita.
ex lapidibus muriaticis meris.
Steatites cum talco.
Serpentin. cum ven. aut glandul. ſteatit.
ex lapid. muriat. & calcar.
ex lapid. muriat. & ponderoſ.
ex lapid. muriat. & argillis.
Steatit. c. arg. indurat.
Steatit. c. ſchiſto.
Serpentin. c. ſchiſto.
Saponar. cum mica.
ex muriat. & ſiliceis.

4. ARGILLA.
acido aëreo ſaturata.
Lac lunæ.
acido aëreo impræguata.
Argilla.
fuſibilis.
apyra.
Marga.
fullonia.
fiſtularia.
porcellana.
Lutum.
Terra laterum.
Bolus.
vulcania.
puteolana.
Cæmentum.
Tufa.
Cineres vulcan.
Tripela.
acido vitrioli ſaturata.
alum. ambryonat.
acido ſalis ſaturata.
paulo majori porti ſilic. minori magneſiæ & minori adhuc calc. ferr. nupta.
Mica pura.
Schiſti.
purpureus.
purpuraſcens.
Ardeſia.
pyritoſus.
bituminoſus.
argilla $\frac{14}{10}$ ſilic. terr. & paux. ferri miſta.
Schiſtus argillaceus.
Arenar. argillac.
Corneus.
Killas.
Toadſtone.
Zeolithus.
Lapis piceus.
Rubrica.
Argillæ compoſitæ.
ex mere argillaceis.
ex terr. argilloſ. & calcar.
Marmo nero antico.
ex terra argill. & ponderoſ.
ex terra argill. & magneſia.
ex terra argill. & ſilicea.
ex terra argill. & pluribus aliis.

5. SILICEÆ.
Quartzum.
Cryſtallus.
opacum.
Arena.
Pyromachus.
Petroſilex.
Jaſpis.
Silex nobilis.
Gemmæ.
Amethyſtus.
Chryſopraſus.
Lapis lazuli.
Lapis nephriticus.
Spatum ſcintillans.
Zoelithus ſiliceus.
Granatus veſarianus.
Granatus vulgaris.
Schoerl.
Schoerl. columnaris.
Turmalinus.
Baſaltes.
Rocoleg. rag.
La cos.
Pumex.
Spatum ferriferum muriat.
Cos turcica.
Rag. ſtone.
Arenarius.
Arena ferri calce cæmentum.
Compoſitæ.
ex ſiliceis & ſiliceis.
ex ſiliceis & calcariis.
ex ſiliceis & baryticis.
ex ſiliceis & muriaticis.
ex ſiliceis & argillaceis.
ex ſiliceis & pluribus aliis.

II. SALIA.

1. ACIDA.
aëreum.
vitriolicum.
ſalis communis.
ſluoris mineralis.
ſuccini.
phoſphori.
molybdænæ.
arſenici.
lapidis pondero .
2. ALCALIA.
vegetabile.
minerale.
volatile.
3. NEUTRA.
Tartarus vitriolatus.
Sal Glauberi.
Sal ſecretus Glauberi.
Selenites.
Sal amarum.
Alumen.
Mineræ alumin.
Vitriolum ferri.
Vitriolum cupri.
Vitriolum zinci.
Vitriolum cobalti.
Vitriolum niccoli.
Vitriolum magneſiæ.
Vitriolum argenti.
Vitriolum mercurii.
Vitriolum plumbi.
Nitrum vulgare.
Nitrum cupicum.
Nitrum calcarium.
Nitrum muriaticum.
Sal digeſtivum Sylv.
Sal culinare.
Sal ammoniac.
Terra ponderoſ. ſalit.
Sal ammon. fixum.
Sal. amar. muriatic.
Alumen muriaticum.

Cuprum

Cuprum ſalitum.
Magneſia ſalita.
Hydrargyrum ſalitum.
Borax.

III. INFLAMMABILIA.

1. ÆREA.
Aër inflammabilis.
Aër hepaticus.

2. LIQUIDA.
Naphtha.
Petroleum.
Maltha.

3. SOLIDA.
Aſphaltum.
Sevum minerale.
Gagates.
Lithanthrax.
Geanthrax.
Turfa.
Succinum.
Ambra.
Copal.
Sulphur.

IV. METALLA.

1. PERFECTA.
Aurum.
Platina.
Argentum.
Hydrargyrum.

2. IMPERFECTA.
Cuprum.
Ferrum.
Stannum.
Plumbum.

3. SEMIMETALLA.
Zincum.
Antimonium.
Arſenicum.
Viſmuthum.
Cobalthum.
Niccolum.
Magneſia nigra.
Wolframum.
Molybdæna.
Saturnites.

I. TERRÆ.

1. SILICEÆ.

Lapis diaboli.
Adamas.
Chryſoberyllus.
Circonius.
Hyacinthus.
Chryſolithus.
Granatus.
Rubinus.
Sapphirus.
Topazius.
Smaragdus.
Beryllus.
Scorlus.
Lapis thumenſis.
Quartzum.
Corneus.
Pyromachus.
Chalcedonius.
Lithoxylon.
Heliotropius.
Chryſopraſus.
Silex ſchiſtoſus.
Obſidianus.
Catophthalmus.
Prehnites.
Zeolithus.
Lapis lazulus.

2. ARGILLÆ.

Argilla pura.
Terra porcellana.
Argilla vulgaris.
Jaſpis.
Opalus.
Lapis piceus.
Spatum adamantinum.
Feldſpatum.
Schiſtus argilloſus.
Schiſtus inflammabilis.
Terra aluminis.
Schiſtus aluminaris.
Lapis aluminaris.
Nigrica.
Coticula.
A. tripolitana.
Mica.
Chlorites.
Chalcolithus.
Hornblenda.
Wacca.
Baſaltes.
Lava.
Pumex.
A. veronenſis.
Lithomarga.
Sapo montanus.
A. ochra.

3. TALCA.

Steatites.
Nephrites.
Terra fullonum.
Talcum plaſticum.
T. medicinale.
Serpentinus.
Talcum.
Asbeſtus.
Cyanites.
Actinotus.

4. CALCARIÆ.

aëratæ.
lactiformis.
Creta.
Marmor.

compactum.
lamelloſum.
Stalactites.
Piſolithus.

Spatum ſchiſtaceum.
Spatum magneſiacum.
Suillus.
Marga.
Schiſtus margac. bitumin.

phoſphoratæ.
Apatites.
boraxatæ.
Boracites.
fluoratæ.
Fluor mineral.
vitriolatæ.
Gypſum.
Selenites.

5. PONDEROSÆ.
Witherites.
Spatum ponderoſum.

II. SALIA.

1. VITRIOLICA.
Vitriolum nativ.
Halotrichum.
Alumen butyraceum.
Salamur. nativ.

2. NITROSA.
Nitrum vulgare.

3. MURIATICA.
Sal commune.
Sal ammoniacum.

4. BORAX.

5. ALCALIA.
Alcali minerale nativ.

III. INFLAMMABILIA.

1. BITUMINA.
Naphtha.
Petroleum.
Aſphaltum.
Lithanthrax.
Spiſſexylon.
Succinum.
Meliedites.

2. SULPHURA.
Sulph. nativ. vulgare.
Sulph. nativ. vulcanium.

3. GRAPHITES.

IV. METALLA.

Platinum.
Aurum.
Hydrargyrum.
Argentum.
Cuprum.
Ferrum.
Plumbum.
Stannum.
Viſmutum.
Zincum.
Antimonium.
Cobaltum.
Niccolum.
Magneſia.
Molybdænum.
Arſenicum.
Scheelium.

TERMINI
Usurpati ARTIS.

I. NOTARUM EXTERNARUM.

1. COLORIS.
   a. albi.
      niveus.
      rubeſcens.
      flaveſcens.
      cineraſcens.
      argenteus.
      vireſcens.
      cæruleſcens.
      lacteus.
      ſtanneus.
   b. cinerei.
      infumatus.
      margaritaceus.
      cæruleſcens.
      vireſcens.
      flaveſcens.
      rubeſcens.
      plumbeus.
      chalybeus.
      nigricans.
   c. nigri.
      cineraſcens.
      cæruleſcens.
      vireſcens.
      fuſceſcens.
      ferreus.
      aterrimus.
   d. cærulei.
      indicus.
      berolinenſis.
      lazureus.
      ſmaltinus.
      violaceus.
      lavendulaceus.
      cæleſtis.
      cineraſcens.
   e. viridis.
      æruginoſus.
      thalaſſinus.
      gramineus.
      pomaceus.
      porraceus.
      olivaceus.
      pſittacinus.
      aſparaginus.
   f. flavi.
      ſulphureus.
      citreus.
      aureus.
      pyritaceus.
      aurichalceus.
      melleus.
      cereus.
      ſtramineus.
      iſabellinus.
      ochraceus.
      vinaceus.
      aurantius.
   g. rubri.
      auroreus.
      lateritius.
      coccineus.
      hyacinthinus.
      ſanguineus.
      cochenillinus.
      cupreus.
      cinnabarinus.
      Karmeſinus.
      perſicinus.
      roſeus.
      carneus.
      obſcurus.
      fuſceſcens.
   h. fuſci.
      rubeſcens.
      caryophyllinus.
      flaveſcens.
      tombacinus.
      hepaticus.
      nigricans.
   i. ſuperficialis.
      pavoninus.
      iridinus.
      columbinus.
      chalybeus.
   k. varii.
      variabilis.
      pro ſitu ad lucem.

4. COHÆSIONIS.
   a. Solida.
      α. continua.
         fragilia.
         tenacia.
         plaſtica.
         ſubductilia.
         ductilia.
         rigida.
         flexilia.
         elaſtica.
         molliſſima, ut unguis digiti veſtigia imprimat.
         mollia, ut cultro rad. queant.
         duriuſcula, cultro vix raſilia.
         dura ad chalybem ſcintillantia.
         duriſſima, limæ reſiſtentia.

friabilia.
ſegregata.
coagmentata.
pulverulenta.
ſquamoſa.
b. Fluida.
tenacia.
tenuia.

2. NITORIS.
inconſpicua i. e. ſplendore omni orba.
micantia.
nitidula.
nitida.
nitidiſſima.
nitore.
vulgari.
vitreo.
cereo.
matris perlarum.
adamantino.
ſemimetallico.
ſpeculari.
metallico.
obumbrante.

3. PELLUCIDITATIS.
Opaca.
Subopaca i. e. ad tenuiores modo margines pellucida.
diaphana.
ſemipellucida.
pellucida.
hyalina leviſſime tincta.

5. TEXTURÆ.
a. compactæ.
feſtucariæ particulis majoribus.
minoribus.
vitreæ.
planæ.
conchaceæ.
planioris.
concavioris.
perfectioris.
imperfectioris.
minutioris.
craſſioris.
ſcoriaceæ.
inæqualis.
granulatæ.
minutim.
craſſius.
uncinulatæ.
terreæ.
ſubtilioris.
craſſioris.
b. fibroſæ, fibris tenerioribus.
craſſioribus.
rectis.
curvis.
parallelis.
divergentibus.
ſtellatis.
faſciculatis.
ſparſis.
c. radiatæ, radiis latioribus.
anguſtioribus.
longioribus.
brevioribus.
rectis.
curvis.
parallelis.
divergentibus.
faſciculatis.
ſtellatis.
ſpinoſis.
d. lamelloſæ, lamellis rectis.
curvis.
indeterminate.
undulatim.
ſphærico-convexis.
frondoſis.
parallelis.
divergentibus.
ſecantibus.
dupliciter.
tripliciter.
quadrupliciter.
ſextupliciter.
e. ſchiſtoſæ, partibus tenuioribus.
craſſioribus.
rectis.
curvis.
indeterminate.
undulatim.

6. SUPERFICIEI.
pinguia.
macra.
frigida.
frigidiuſcula.
tepida.
inæqualia.
lævia.
aſpera (granulis minimis æqualibus.)
ſcabra.
foveolata foveolis cubicis.
pyramidalibus.
tabulatis.
conicis.
ſphæricis.
ſtriata.
transverſim.
longitudinaliter.
diagonaliter.
alternatim, (alternante ſtriarum directione.)
decuſſatim.
plumoſa (i. e. ſtriis e media longitudinali oblique transverſim excurrentibus.)

7. PONDERIS.
ponderoſiſſima (i. e. pondere ſpecifico aquam ſexies & ultra ſuperantia.)
ponderoſa (i.e. aquam quater & ultra ſuperantia.)
leviuſcula (i.e. aquam bis & paulo ultra ſuperantia.)
levia, (aquam parum ſuperantia.)
natantia.

8. FIGURÆ.
a. fragmentorum in quæ foſſile ſecedit.
a. ſponte.
α. granulata, granulis
craſſioribus.
ſubtilioribus.
majoribus.
minoribus.
rotundatis.
ſubſphæricis.
lentiformibus.
angulatis, angulis
communibus.
elongatis.
majoribus.
β. cruſtoſa, cruſtis
craſſioribus.
tenuioribus.
rectis.
angulatis.
ſphæricis.
concentricis.
conicis.
γ. bacillaria, bacillis
craſſioribus.
tenuioribus.
rectis.
curvis.

b. mallei ictu.
α. regularis.
cubicæ.
rhomboidalis.
trapezoideæ.
pyramidalis.
dodecaëdriæ.
β. irregularis.
indeterminatæ, marginibus
obtuſis.
acutis.
feſtucariæ.
diſcoideæ.
cuneatæ.
b. totius foſſilis.
a. minus regularis.
vulgaris, amorpha.
filiformis.
capillaris.
dentiformis.
denticulata.
reticulata.
arboreſcens.
fruticoſa.
ramoſa.
pectinata.
tubuloſa.
fiſtularis.
rotundata.
farta.
nucleo
mobili Aëtites.
fixo. Geodes.
vacua.
botryoides.
ſphærica.
ſphæroides.
elliptica.
amygdalina.
reniformis.
tuberoſa.
membranacea.
ſpecularis.
foraminulenta.
celluloſa cellulis
ſimplicibus.
tetraëdris.
hexaëdris.
polyëdris.
rotundis.
duplicibus.
ſpongioſa.
veſiculoſa.
eroſa.
perforata.

b. regularis. Cryſtalli
α. Tabulæ.
tetraëdræ t. I. II. III. f. 17.
rectangulæ.
obliquangulæ.
pentaëdræ tab. I. II. III. f. 29.
hexaëdræ.
octaëdræ.
æquilateræ.
inæquilateræ.
tenuioris.
craſſioris.
perfectæ.
angulis in aciem terminatis
omnibus.
nonnullis.
ſparſæ.
coagmentatæ.
inordinatim.
decuſſatim.
in cellulas.
pyramides.
globulos.
lentes.
amygdalos.
acus.
ad latera adnatæ.

β. Cubi ſ. Teſſeræ.
rectanguli ſ. veri.
obliquang. ſ. rhombi.
majoribus.
minoribus.
minimi.
lateribus planis.
concavis.
convexis.
altern. conv. & plan.
marginib. } truncatis.
angulis. } omnibus.
} nonnullis.
ſuperficie terminali in aciem abeunte.
ſparſi.
incluſi.
connati.
decuſſatim.
aggregati.
ſeriatim.
in globulos.
uvæ formam.
faſciculatim.
ſtellatim.
in pyramides.
ramos.
arbuſculos.
cellulas.
γ. Priſmatis.
triaedri.
tetraedri.
pentaedri.
hexaedri.
octaedri.
cuneaedri.
rectanguli.
obliquanguli.
æquilateri.
inæquilateri.
lateribus anguſtioribus.
altern. terminat.
in planis.
convexis.
ventricoſis.
incurvis.
ſuperficie terminali.
utraque } abeunte
alterutra } in
aciem.
pyramidem.
æqualis later. numeri.
minoris.
latioris.
tenuioris.
acicularis.
capillaris.
marginibus truncatis alternis omnibus.
ſparſi.
cohærentis.
lateraliter.
baſi.
apice.
per medium tranſeund.
cum alio aut aliis.
aggregat.
inordinatim.
ſtellatim.
faſciculatim.
ſeriatim.
graduatim.
pectinatim.
in olivæ formam.
amygdalæ —
uvæ —
renis —
globi —
pyramidis —
columnæ —
priſmatis —
aciculæ formam.
bacillorum —
gemmarum —
δ. Pyramidis.
triaedræ.
tetraedræ.
hexaedræ.
octaedræ.
ſimplicis.
duplicis.
priſmati ſuperimpoſitæ.
inverſæ.
rectæ.
truncatæ.
apice.
marginibus.
baſeos.
lateralibus.
lateribus.
latioribus.
anguſtioribus.
acicularis.
capillaris.
æqualibus.
inæqualibus.
altern. majoribus.
planis.
convexis.
concavis.
intus cavæ.
auctæ altera pyramide
apice
alterutro
utroque
baſi communi.
ad latera.
ſolitariæ.
ſparſæ.
aggregatæ.
inordinatæ.
ſeriatim.
graduatim.

divergendo
roſæ in modum.
ſtellatim.
faſciculatim.
mergitis forma.
gemmæ —
globi —
renis —
granorum —
bacillorum —
criſtæ —
cellularum —
arbuſculæ —
muſci —
ramorum —
fruticeti. —
reticulatim.
in columnas.
tabulam.
pyramidem.
cohærentis.
latere.
apice.
medio.
geminæ.
tergeminæ.
plures.
ε. Lentis i. e. pyramidis obſcuræ duplicis depreſſæ : angulis corporeis obtuſiſſimis.
tetraedræ.
hexaedræ.
vulgaris.
ſellæ in modum carvatæ.
ſolidæ.
intus cavæ.
ſolitariæ.
aggregatæ in
rajæ forma.
uvæ — .
globi —

granulorum forma.
cellularum —
inordinate.
connexæ.
parallelæ.
ζ. Dodecaedri.
perfecti.
minus perfecti.
marginibus
truncatis.
in aciem terminatis.
9. LOCI, in quo, MODI quo occurrunt.
α. rupeſtria, quæ integros montes, aut portionem præcipuam, ſtrata, rupes conſtituunt.
β. paraſitica.
libera
aliis incluſa
vaga
fruſtis majoribus.
rotundatis.
angulatis.
acutangulis.
obtuſangulis.
granulis.
adhærentia
corticis forma.
membranæ —
bractearum —
granorum —
inhærentia
ſparſim.
punctatim.
per venas.
glandulas.
fruſtula.
amorpha.
cryſtallina.
majora.
minora.
minima.
ſtrata.

10. COLORIS, quo inquinant alia corpora contactu.
ſcriptura.
tritura.
ejuſdem cum foſſili ipſo coloris.
alieni.

11. SENSATIONIS, quam linguæ imprimunt
adhærent
inſipida.
ſapida, ſaporis.
argillacei.
ſubdulcis.
ſtiptici.
amari.
lixivioſi.
ſalſi.
acris.

12. ODORIS, quem exhalant.
ſponte.
trita
per ſe
cum aliis.
calefacta.
prunis inſperſa.
alcalini.
empyreumatici.
bituminoſi.
ſulphurei.
arſenicalis.

13. SONI, quem edunt
agitata.
cum aliis collidentia.
muta.
ſonora.
ſonitu campanæ æmulo crepitantia.

II. NOTARUM PHYSICARUM.

attractoria, quæ ferrum trahunt.
retractoria, quæ a magnete trahuntur.
intractabilia, quæ non trahuntur.
electrica, quæ trita aut calefacta moleculas minus ponderoſas trahunt.
phoſphoreſcentia, quæ
trita, | ſolis radiis | aut igni expoſita | aut prunis inſperſa } in tenebris lucem ſpargunt.
humeſcentia, quæ ſenſim aquam imbibunt.
bibula, quæ aquam avidius abſorbent.
fatiſcentia, quæ ſponte in aëre dilabuntur.

III. NOTARUM CHEMICARUM.

1. petitarum a mutatione, quam ignis infert.

α. volatilia, quæ leni colore
ſemivolatilia, quæ prunis inſperſa | fixa, quæ ne violento quidem igne } in vapores abeunt.

β. fumantia, quæ igne tractata fumum | ſcintillantia, quæ igne tractata ſcintillas | inflammabilia, quæ igne tractata flammam } emittunt.
conſueti | alieni } coloris.

γ. variabilia, quæ igni expoſita mutant colores.
decrepitantia, quæ igni expoſita crepitum edunt.
detonantia, quæ prunis inſperſa detonant.
ſpumeſcentia, quæ igni expoſita ſpumeſcunt.
intumeſcentia, quæ igni expoſita intumeſcunt.
liquabilia, quæ igni expoſita liquantur.
vitreſcentia, quæ ignis vi
ſola
cum aliis mixta in vitrum abeunt.
pellucidum.
diaphanum.
opacum.
excolor.
tictum.
calcinabilia, quæ ignis vi cohæſione partium orbantur.
induranda, quæ igni expoſita indurantur.
apyra, quæ ignis fuſorii vi maxima non liquuntur.

2. petitarum ab efficacia ſolventium.

α. efferveſcentia
facile & illico.
demum, poſtquam raſa ſunt & lente.
cum aqua forti.
cum oleo vitrioli.
non efferveſcentia.

β. Solubilia.
facile.
difficulter.
coloris ope.
ſine colore in
aqua.
oleis.
alcalibus.
aqua forti.
aqua regis, quarum colorem mutat, vel non mutat.

tota.
pro parte.
  ut abeant cum ſolvente
    in cryſtallorum } ſpeciem
    in gelatinæ
    in neutram
  non ſolubilia.

γ. Solventia.
  via humida.
  via ſicca.
    terras.
    metalla.

Inſtrumenta Lithologi parata erunt primario:
Malleus, *Culter*, *Chalybs*, *Aqua fortis*, *Aqua regis*, *Lixivium cauſticum*, *Lixivium ſanguinis*, *Borax*, *Acidum oſſium*, *Alcali minerale*, *Gurgulio* ſ. Fiſtula flammi potens abſque folle.

Signa ☉ Aurum.
☽ Argentum
☽ↄ Platina.
♀ Cuprum.
♂ Ferrum.
♄ Plumbum.
♃ Stannum.
♁ Antimonium.
☿ Hydrargyrum.
W Wiſmutum.
ZZ Zincum.
ɷ Magneſia.
♎ Molybdæna.

Signa ♇ Wolframum.
♅ Uranites.
♇ Niccolum.
K Cobaltum.
C=O Arſenicum.
🜍 Sulphur.
⊕ Vitriolum.
⦶ Nitrum.
⊖ Muria.
O Alumen.
∇F Aqua fortis.
∇R Aqua regis.

Semitæ DEI *in Abyſſo.*

SYSTEMA
REGNI MINERALIS.

I. TERRÆ.

𝔄. SIMPLICIORES.

A. TALCOSÆ.

a. pinguia.
1. Talcum.

b. macre.
2. Serpentinus.
3. Asbeſtus.
4. Actinotus.
5. Hornblenda.

B. PONDEROSÆ.
6. Barytis.
7. Croſſopetra.

C. CALCARIÆ.

a. puriores.
8. Creta.
9. Tophus.
10. Spathum.
11. Schiſtolithus.
12. Inolithus.
13. Stalactites.
14. Piſolithus.
15. Marmor.

b. minus puræ.

a. efferveſcentes.
16. Suillus.
17. Tremolites.
18. Stellaris.
19. Humus.
20. Marga.
21. Magneſiata.

b. non efferveſcentes.
22. Gypſum.
23. Hepaticus.
24. Lazurus.
25. Fluor.
26. Apatices.
27. Boracites.

D. ARGILLACEÆ.
28. Aluminaris.
29. Argilla.
30. Puteolana.
31. Cæmentum.
32. Carioſus.
33. Ardeſia.
34. Baſaltes.
35. Lava.
36. Mica.
37. Opalus.
38. Zeolithus.
39. Scorlus.

E. SILICEÆ.

a. fixæ.

a. impuræ.
40. Gemmæ.
41. Olivinus.
42. Feldſpatum.
43. Pyromachus.
44. Petroſilex.
45. Jaſpis.
46. Smiris.
47. Circonius.
48. Amarus.
49. Lydius.
50. Chlorogranatus.

b. puriores.
51. Arena.
52. Quartzum.
53. Chalcedonius.

b. volatiles.
54. Adamas.

E. ADAMANTINÆ.
55. Adamantinus.

ꝫ. AGGREGATÆ.

A. particulis magis minuſve cryſtallinis, nullo viſibili cæmento intermedio cohærentibus.

56. Granites.
57. Gneiſſum.

B. fruſticulis heterogeneis maſſæ alterius lapidis immerſis.

58. Porphyrius.
59. Amygdalites.

C. fragmentis lapidum cæmenti ope conglutinatis.

60. Breccia.
61. Arenarius.

II. SALIA.

62. Natrum.
63. Borax.
64. Muria.
65. Nitrum.
66. Mirabile.
67. Amarum.
68. Alumen.
69. Vitriolum.

III. PHLOGISTA.

70. Turfa.
71. Bitumen.
72. Mellites.
73. Succinum.
74. Ambra.
75. Graphites.
76. Sulphur.

IV. METALLA.

77. Uranium.
78. Wolframum.
79. Magneſia.
80 Stibium.
81. Zincum.
82. Molybdæna.
83. Stannum.
84. Cobaltum.
85. Ferrum.
86. Arſenicum.
87. Cuprum.
88. Niccolum.
89. Wiſmutum.
90 Argentum.
91. Plumbum.
92. Hydrargyrum.
93. Aurum.
94. Platina.

Appendix.

V. LARVATA.

♃. animalium.

A. Mammalium.

95. Anthropolithus.
96. Zoolithus.

B. Avium.

97. Ornitholithus.

C. Amphibiorum.

98. Amphibiolithus.

D. Piſcium.

99. Ichthyolithus.

E. Inſectorum.

100. Entomolitus.

F. Vermium.

101. Conchyliolithus.
102. Coralliolithus.

ꝫ. Vegetabilium.

103. Phytolithus.

I. LAPIDES e terris induratis compactis natæ, in has iterum fatiſcentes, natura repugnante, dirimuntur ab his, cum iis potius in unam claſſem conjungendi, ſummæ ignis violentiæ reſiſtunt, ne hilum quidem eorum in vapores reſolventi, ſapore omnes odore plurimi orbi.

1. TALCOSÆ (plurimæ) molles & molliſſimæ magneſiam albam potiſſimum continent, nulla unquam corporum vivorum veſtigia; in montibus primariis, magis adhuc in ſecundariis obviæ, nonnullæ quoque ſtrata & montium partes præcipuas conſtituentes, aliæ potius paraſiticæ: Igne nec calcinantur, nec, niſi Hornblendam, & ipſum Actinotum Asbeſtumque ferriferum exceperis, facile liquantur, ſed indurantur.

2. PONDEROSÆ terræ, gravitate ſpecifica præ reliquis eminentes facilius liquantur igne, non niſi paraſiticæ, neque unquam vivorum corporum veſtigia continentes molles & duriuſculæ conflantur potiſſimum ex terra ponderoſa dicta.

3. CALCARIÆ, aliæ ex teſtaceis & coralliis natæ, aliæ primitivæ, aliæ rupeſtres, aliæ paraſiticæ multæ non raro corporum vivorum veſtigiis refertæ, pauciſſimis exceptis, molliſſimæ, molles & duriuſculæ, igne evadunt magis poroſæ; puriores omnes cum aqua forti effervefcunt, & fere totæ ſolvuntur.

4. ARGILLACEÆ aliæ molliſſimæ, plaſticæ, linguæ adhærentes, humectatæ ſibi proprium odorem ſpirantes, igne indurantur, ex durioribus fatiſcentibus non raro ortæ animalium & vegetabilium veſtigia ſæpe impreſſa offerunt, aliæ molles vel duriuſculæ ignis vi liquantur potius, quam indurantur; harum plures rupeſtres, aliæ, pauciores tamen, duræ eamdem ab igne ſubeunt mutationem.

5. SILICEÆ duræ & duriſſimæ acidorum, ſi fluoris acidum excipias, vim eludunt, certe pro parte; aliæ rupeſtres, aliæ paraſitæ, illæ non raro veſtigia corporum vivorum præ ſe ferentes.

6. ADAMANTINUS duriſſimus, paraſiticus propriam ſibi in nullo alio foſſili hactenus detectam terram continet.

7. AGGREGATÆ e quinque prioribus conflantur, & indolem partis dominantis ſequuntur.

Novam utique terræ ſimplicis ſpeciem conſtituere videtur, nuper in antro Sydney novæ Hollandiæ reperta plumbaginis micæque miculis & arenæ granulis mixta, a *Wedgewoodio* act. angl. vol. 80. p. 2 p. 306. deſcripta; reſiſtit illa quidem vitrioli & nitri acidis, quamvis fortiſſimis & bullientibus; ſolvitur autem ſalis culinaris acido, & conſtantius adhuc aqua regis,

II. SALIA, ſapore, ſolubilitate in aqua ab omnibus aliis, ſpecie ſaporis, gradu ſolubilitatis inter ſe diſtinguuntur.

III. PHLOGISTA ſolubilitate in oleo, & fumo flammave, quam igni expoſita monſtrant grato vel ingrato, innocuo vel funeſto, ex colore vel tinctu dignoſ-untur.

IV. METALLA nitore, pondere ingenti, fluxu, quem in igne experiuntur ſibi proprio, ſolubilitate in acidis diſcernuntur.

V. LARVATA non foſſilia ſui generis, ſed ratione materiæ, qua conſtant; ad præcedentes claſſes amandanda non differunt, niſi forma, quam corporibus alterius naturæ regni debent.

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ut tamen lenis calor iterum expellat; ex hac ſolutione non quidem per ſanguinis lixivium, verum per ſalia lixivioſa omnis generis, ex meraco quoque ſalis acido per ſimplicem aquam, lacteo ſemper colore, præcipitata, facile in igne fundenda; carbonum pulveri intertrita, neque hæc neque alia ſimplex & pura terra, quamvis ignis violentiæ ſummæ in vaſis ab omni metallica labe liberis expoſita in metallum, idque ſui generis coire viſa eſt.

Altera, uti quidem hactenus videtur, a reliquis diſtincta terra ſimplex latet in lapide friabili parum nitente diaphano, ex albedine in aſparragi virorem vergente, prope Strontian in Scotia reperto, diu pro barytide Witheringii habito; affinitate, quam cum aëre fixo alit, calore, quem uſta & aquæ immerſa excitat, ſolutione quam ſubit, & facilima ad aëris acceſſum præcipitatione ponderoſæ ſimilis; at inſons, minus ponderoſa aërem fixum igne facilius dimittens, quamvis difficilius, quam quidem calcaria, a qua etiam eo abludit, quod ſolutio in aqua forti facta, facilime cryſtallos tabulares exhibet, & charta illi intincta, ſiccata, & candelæ accenſæ admota cum flamma læte purpurea ardet. *Cravvford* apud *Duncam* medical commentaries. Dec. II. Vol. 4. p. 436. & Memoir. of the ſociety of Mancheſter, Vol. 3. p. 599.

CLAS-

CLASSIS I.

TERRÆ.

I. TALCOSÆ.

1. TALCUM.	Pingue attactu.
2. SERPENTINUS.	Macer, textura feſtucaria, inconſpicuus.
3. ASBESTUS.	Macer, fibroſus inconſpicuus.
4. ACTINOTUS.	Macer, nitens.
5. HORNBLENDA.	Macra, lamelloſa, atra.

II. PONDEROSÆ.

6. BARYTIS.	Acido vitrioli bulliente ſolubilis.
7. CROSSOPETRA.	Acido vitrioli non tota ſolubilis.

III. CALCARIÆ.

8. CRETA.	Inquinans.
9. TOPHUS.	Poroſus, ex aqua præcipitatus.
10. SPATUM.	Lamellatum, vi in fragmenta rhombea diſcedens.
11. SCHISTOSPATUM.	Undulato-ſchiſtoſum.
12. INOLITHUS.	Fibroſus, aqua forti totus cum efferveſcentia ſolubilis.
13. STALACTITES.	In aëre ex aqua præcipitatus.
14. PHISOLITUS.	Ex globulis conflatus.
15. MARMOR.	Compactum aut granulatum.
16. SUILLUS.	Tritura fœtens.
17. TREMOLITES.	Radiatus, aqua forti ex parte ſolubilis.
18. STELLARIS.	Setellatim fibroſus, igne facile liquandus.
19. HUMUS.	Friabilis, exſiccatione expalleſcens.
20. MARGA.	Igne indureſcens, paulo fortiori vitreſcens.
21. MAGNESIATA.	Igne nigreſcens.
22. GYPSUM.	Calcinatum, cum aqua in aëre indureſcens.
23. HEPATICUS.	Tritura aut igne hepar ſulphuris ſpirans.
24. LAZURUS.	Duriuſculus opacus, colore cæruleo ab inſperſis acidis non alterabili.
25. FLUOR.	A vitrioli acido calente infuſo aërem acidum vitrum corrodentem dimittens.
26. APATITES.	Prunis inſperſus lucem eximiam vireſcentem ſpargens, igne non facile liquabilis.
27. MORACITES.	Cubicus, durus.

IV. ARGILLACEÆ.

28. ALLUMINARIS. Macra, tota fere aqua forti ſolubilis.
29. ARGILLA. Pinguis attactu, plaſtica, igne indureſcens.
30. PUTEOLANA. Friabilis, cum aqua & calce ſubacta ad aërem indureſcens.
31. CÆMENTUM. Solidum, contuſum, cum aqua & calce ſubacta ad aërem indureſcens.
32. CARIOSUS. Scaber in aqua, in pulverem dilabens.
33. ARDESIA. Fiſſilis, humectata argilam ſpirans.
34. BASALTES. Inconſpicuus opacus, compactus, coloris obſcuri, facile ſatiſcens, in vitrum nigrum igne abiens.
35. LAVA. Vulcani vel ignis ſubterranei vi nata.
36. MICA. ſquamoſa.
37. OPALUS. Amorphus, compactus, igne vix liquabilis.
38. ZEOLITUS. Igne facile cum ebullitione fluens, & dum in fluidum ſtatum tranſit, lucem ſpargens.
39. SCORLUS. Igne fluens, nullum tamen lumen emittens.

V. SILICEÆ.

40. GEMMA. Cryſtallina, dura & duriſſima, in tenebris lucens.
41. OLIVINUS. Facile ſatiſcens, in igne difficulter fluens.
42. FELDSPATUM. Lamelloſum, igne facile in vitrum pellucidum abiens, facile ſatiſcens.
43. PYROMACHUS. Nec ſatiſcens, nec igne liquandus, fragmentis convexis.
44. PETROSILEX. Igne liquandus, diffractus feſtucas referens.
45. JASPIS. Opacus, igne colorem mutans neque tamen liquabilis, fragmentis convexis.
46. SMIRIS. Amorphus, difficile liquabilis, duriſſimus.
47. CIRCONIUS. Ponderoſus, intus nitidiſſimus, incurvo-lamelloſus.
48. AMARUS. Tenax, viridis, diffractus feſtucas referens.
49. LYDIUS. Fiſſilis, opacus, coloris obſcuri.
50. CHLOROGRANATUS. Viridis, cryſtallinus, igne facile liquabilis.
51. ARENA. Granula ſicca, dura, ſcabra.
52. QUARTZUM. Apyrum, acidis, præter fluoris acidum reſiſtens, fragmentis angulatis.
53. CHALCEDONIUS. Apyrum, acidis reſiſtens, fragmentis magis convexis.
54. ADAMAS. Duriſſimus, igne volatilis.

VI. ADAMANTINÆ.

55. ADAMANTINUS. Apyrus, fixus, durus, lamelloſus.

VII. AGGREGATÆ.

56. GRANITES, continuus.
57. GNEISSUM, fiſſile.
58. PORPHYRIUS, particulis cryſtallinis paſtæ lapideæ immerſis.
59. AMYGDALITES, glandulis rotundatis in maſſa lapidea nidulantibus.
60. BRECCIA. Fragmentis lapidum per cæmentum lapideum aut metallicum conglutinatis.
61. ARENARIUS. Granulis lapidum ſiliceorum per cæmentum lapideum aut metallicum conglutinatis.

I. TALCOSÆ.

1. TALCUM. Ex magneſia alba, terra ſilicea & phlogiſto conflatum.

Molle, attactu pingue, polituram non admittens.

Igne indurandum, cum aqua forti non efferveſcens, oleum abſorbens.

Spuma maris. Meerſchaum. 1. T. album tenax ad aërem indureſcens. *J. Beckmann commentat. Goetting.* 4. *p.* 47. *Wiegleb n. chem. Entd.* 8. *p.* 8.

Syſt. nat. XII. 3. *p.* 201. *n.* 5. Argilla (lithomarga) flavicans ſolideſcens impalpabilis.

Brünnich in traduct. *Cronſtedt mineralog.* § 85. 1. 2. Meerſchaum.

Habitat venis exilibus humo tectum in Natolia, Thracia, Græcia, Cherſoneſo taurica *& ipſa* America *ſeptentrionali.*

fullonum. 2. T. tinctura tenax.

Hoffmann bergmænn. Journ. 1789. 1. *p.* 157.

Habitat in Cornubia & Bedfordia Angliæ, *in* Luſatia & Saxonia, *in hac prope* Roſſwein *alta ſtrata conſtituens, humo tecta, ex flaveſcente aut vireſcente-cinereum, ex vireſcente album, viride aut carneum, fullonum uſu celebre.*

porcellanum. 3. T. album viridi tinctum, tenax, igne paulo vehementiori in porcellanum abiens.

Guettard & Lavoiſier act. Pariſ. pro 1778. *p.* 433. 434.

Habitat in Lotheringia, 30 *pedes profundis ſtratis* 7-8 *pedes altis, porcellanæ parandæ inſerviturum.*

Chlorites. Sammterde. 4. T. friabile, ſquamoſum viride, humectatum argillam ſpirans, igne fortiori in ſcoriam nigram abiens.

Habitat in Helvetia & Sabaudia *cryſtallo montanæ creberrime inſperſum.*

ſquamoſum. 5. T. friabile ſquamoſum apyrum.

Hoffmann. bergmænn. Journ. 1789. 1. *p.* 160.

Habitat prope Freybergam Saxoniæ.

radiatum. 6. T. argenteum, pinguis nitoris lamellis flexilibus ſtellatis.
Habitat in valle Tremola, *monti* S. Gotthardi *confini.*

coſmeticum. 7. T. ſubflexile diaphanum, undulatim lamelloſum nitidum in fragmenta diſcoidea diſcedens.

Syſt. nat. I. *p.* 156. *n.* 1. Talcum, particulis impalpabilibus diaphanis mollluſculis convexis filibus.

Syſt. nat. XII. 3. *p* 59. *n.* 7. Mica (talcoſa) lamellis flexuoſis friabilibus vireſceati-albidis diaphanis.

Cronſt. mineral. 95. *n.* 2. V. 1. Mica ſquamoſa martialis.

Wall. min. 127 *Syſt. mineral. p.* 374. *n.* 5. Talcum albicans, lamellis ſubpellucidis.

Woltersd. mineralog. 17. Talcum molliuſculum friabile vireſcens.

Dal. pharmac. 46. Talcum officinarum.

Talcum, lamellis ſubdiaphanis flexilibus albis. *Carth. miner.* 15.

Habitat paraſiticum in regno Neapolitano, valle Tellina, Tyroli, Saxonia, Sileſia, Suecia, *ex dilute vi idi argenteum alias ex vireſcenti cinereum viride, rubrum, flavum vel flaveſcens, aliquando arbuſcularum imaginibus pictum, uſu coſmetico, olim quoque medicato clarum.*

brianzonicum. 8. T. rigidum incoſpicuum, ſcriptura inquinans, minutiſſime lameloſum.

Cronſt. miner. §. 80. Creta brianzonica.

Waller Syſt. miner. 1. *p.* 375. *n.* 10. Talcum ſolidum durius ſemipellucidum pictorium.

Cartheuſ. m n. 15 Talcum ſubdiaphanum denſum albeſcens, lamellis minutiſſimis.

Habitat prope Briancon Galliæ, *album vel viride, ſcriptorio & pictorio uſu totum.*

Smectis. 9. T. rigidum inconſpicuum tritura nitens, ſcriptura alba in quinans, diffractum feſtucas referens, ſubdiaphanum apyrum.

Syſt. nat. XII. 3. *p.* 52. *n.* 4. Talcum ungue raſile, albo inquinans.

Wolt. min. 16. Smectis opacus mollis albicans.

Vog. miner. 100. Steatites, Lendites, Smectis, Creta cimollia.

Coſt. foſſil. 60. Argilla indurata vireſcens Morochtos.

α. Steatites ſolidior.

a. opacus. *Wall. Syſt. miner.* 1. *p.* 383. *n.* 3. Steatites opacus particulis inconſpicuis, ſolidus durior pictorius.

Speckſtein. b. diaphanus.

Wall. Syſt. min. 1. *p.* 384. *n.* 4. Steatites, particulis impalpabilibus mollis ſemipellucidis.

Cronſt. miner. §. 81. Argilla indurato particulis impalpabilibus ſolida.

S. β. *Steatites* mollior. *Cronſt. miner.* §. 80.

Spaniſche a. ſubdiaphanus.

Kreide. *Waller. ſyſt. miner.* 1. *p.* 381. *n.* 2. Steatites particulis impalpabilibus mollis lubricus inquinans.

Seifenſtein. b. ſubopacus.

γ. *Steatites* cryſtallis hexaëdro, priſmaticis in pyramidem hexaëdram terminatis. *Abich*, *Ræpke & Beyer. chem. Annal.* 1784. 1. *p.* 430. 2. *p.* 447. & 1785. 1. *p.* 266.

Habitat in Sina, Norwegia, Suecia, Cornubia, Saxonia, Franconia, & *baſaltæ innidulans ad* Rheni ripas, & *prope* Gœttingam, *album, ex vireſcente album, viride cinereum, flaveſcens, rubeſcens, non raro venis, quæ ſæpe ſaponis veneti picturam mentiuntur, aut arbuſcularum imaginibus varium, ſtatuis, ſcutulis, vaſis, præſertim igni exponendis, furnorumque partibus ignem violentum experturis eximie inſerviens, purgatorio, ſcriptorio, pictorio, coſmetico quoque uſui veniens.*

Ollaris. 10. T. rigidum opacum inconſpicuum undulatim lamelloſum
Topfſtein. in fruſta diſcoidea diſcedens.

Syſt. nat. XII. 3. *p.* 52. *n.* 5. Talcum opacum ſolidum ſubvireſcens, particulis ſubſquamoſis.

Wall. min. 133. Lapis lebetum.

Wall. Syſt. min. 1 *p.* 387. *n.* 7. Steatites opacus, particulis micaceis mixtus, ſolidus, calcinatione mica alba vel flava nitens.

Wolt. min. Smectis opacus duriuſculus variegatus.

Carth. min. 26. Smectis micaceus durus ex griſeo vireſcens.

Habitat in Ruſſia (*prope* Troizka,) Norwegia, Suecia, Sileſia, Saxonia, Turingia, Franconia, Tyroli, Elba, & *potiſſimum in* Valle Tellina, *ejuſque cum* Mediolanenſi Ducatu *confiniis, ſæpe alta ſtrata conſtituens, atque utplurimum micam argenteam inſperſam habens, ollis aliiſque id genus vaſis, furnis, præſertim fuſoriis, caminis, ædificiorum fundamentis egregie conducens, frequentiſſime ex vireſcente cinereum.*

Schiſto- ſum. Talkſchiefer. 11. T. nitidum ſubflexille lamelloſum in tabulas ſiſſile. *Storr. Alpenr.* 2. *p.* 285-289.
Wall. miner. Syſt. 1. *p.* 388. *n.* 8. Steatites particulis micaceis mixtus, mollis, lamellaris, pictorius, calcinatione mica alba vel flava nitens.
Habitat in Suecia, Rhætia, *album ex vireſcente album, vireſcens, ex cinereo vireſcens, ſanguineum aut obſcure rubrum, tectis aptiſſimum.*

2. SERPENTINUS. Ex magneſia alba, calce ferri, & terra ſilicea, conflatum quibus frequenter terra aluminaris, rarius calcaria accedit.

Macer attactu polituram admittens.

Igne indurandus, neque cum aqua forti efferveſcens, neque oleum abſorbens.

Nephriticus. Nierenſtein. 1. S. porraceus ſemipellucidus attactu pinguiuſculus.
Syſt. nat. XII. 3. *p.* 53. *n.* 7. Talcum præpoliendum viride ſubdiaphanum, particulis ſubfibroſis.
Carth. miner. 26. Smectis ſubtilis duriuſculus viridis, fragmentis ſubfiſſilibus.
Wolt. min. 16. Smectis ſubdiaphanus durus viridis.
Wall. miner. 52. Gypſum viride ſemipellucidum ſiſſile.
Wall. Syſt. miner. 1. *p.* 386. Steatites ſemipellucidus, particulis minoribus, ſolidus, colore eminentiori virideſcens, durus polituram admittens.
Dal. pharm. 52. *Vog min.* 102. Lapis nephriticus.
Habitat ad Amazonum *fluvium* Americæ, *ad montem* Altai Sibiriæ, *in* Suecia, Saxonia, Bohemia, Sileſia, *montibus* carpathicis & rhæticis, *in oriente variis ornamentis atque utenſilibus inſerviens.*

genuinus. Serpentinſtein. 2. S. opacus inconſpicuus diffractus feſtucas referens igne dealbandus.
Syſt. nat. XII. 3. *p.* 52. *n.* 6. Talcum præpoliendum viridi maculatum opacum, particulis granulatis.

Wall. min. 131. Ollaris ſolidus vireſcens maculoſus, polituram admittens.

Wall. Syſt. mineral. 1. *p.* 385. *n.* 5. Steatites opacus particulis diſtinguendis ſolidus, coloribus eminentioribus maculoſus, durus polituram admittens.

Wolt. min. 16. Smectis opacus duriuſculus vireſcenti-maculatus.

Coſt foſſil. 266. Marmore-proſeron obſcure viride.

Worm. muſc. 43. *Myl. ſaxon.* 1. *p.* 31. Marmor ſerpentinum Zeblizenſe.

Cronſt. min. 76. Argilla indurata ſolida particulis majoribus

Vog. miner. 103. Lapis ſerpentinus.

Habitat in monte Tſchircai Sibiriæ, *in montibus* Dalecarlicis, Scoticis, Hercynicis, Saxonicis, Franconicis, Carpaticis, Stiriacis, Tyrolenſibus, Italicis, *præſertim* Pedemontii, Genuæ, Hetruriæ, Elbæ, *in quibus ampla ſtrata conſtituit, vagus prope* Genevam, *frequentius maculis, ſtriis, venis, punctis varius, quam unicolor, creberrime viridis, aut niger, rarius cinereus vel ruber, rariſſime flavus, cæruleus vel albus, ædificiis, eorumque partibus elegantioribus, vaſis varii generis, præcipue ignem violentum experturis inſerviens.*

fiſſilis. 3. S. viridis in tabulas fiſſilis.
Chlorit-ſchiefer. *Habitat in* Norwegiæ *montibus, matrix cryſtalorum ferri retractorii.*

criſtallinus. 4. S. viridis, cryſtallos aciculares referens.
Habitat in Saxonia, Helvetia, Sabaudia *in ſuperficie cryſtalli montanæ.*

3. ASBESTUS. Macer, fibroſus, mollis, levis & natans igne fragilis, paraſiticus. Ex magneſia alba & terra ſilicea, utplurimum quoque aluminari conflatus, cui ſæpius calx ferri, rarius terra calcaria accedit.

* *fibris omnibus parallelis, fragmentis feſtucas referentibus.*

Amiantus. 1. A. natans, fibris tenerrimis ſeparabilibus ſummopere flexilibus.

Syſt. nat. XII. 3. *p.* 55. *n.* 1. Amiantus fibroſus, fibris ſeparabilibus flexilibus tenacibus.
Wall. min. 140. Amiantus fibris mollibus parallelis facile ſeparabilibus.
Cronſt. miner. 105. Byſſus.
F. L. Brückmann theſes phyſicæ ex hiſtoria curioſa lapidis του ἀσβεστου, ejuſque præparatorum &c. Brunſv. 1727. 4.
Ciampini de incombuſtibili lino ſ. lapide amianto ejuſque filandi modo epiſtolaris diſſertatio. 1691. 4.
Habitat frequens in ſerpentino in montibus Ural Sibiriæ, *in* Lapponia, Suecia, Saxonia, Franconia, Bohemia, Sileſia, Hungaria, Luſitania, *elegantiſſimus in* Candia, Cypro, Corſica, Pedemontio, Valle Tel-ina, *ſericei interdum nitoris, utplurimum albus, vel ex vireſcente albus, rarius carneus, ochraceus aut viridis.*

maturus. 2. A. durior, fibris arctius cohærentibus tenacibus ſeparabilibus. *Wall. Syſt. min.* 1. *p.* 395. *n.* 2.
Syſt. nat. XII. 3. *p.* 55. *n.* 2. Amiantus (plumoſus) fibroſus, fibris ſeparabilibus flexilibus fragilibus pappoſis.
Cronſt. miner. §. 105. 2. Asbeſtus, fibris parallelis, martialis fragilior.
Habitat in Suecia, *in tomentum potius, quam in fila ſeparabilis, ferro ſcatens, hinc vireſcens, & igne in ſcoriam nigram liquandus.*

fragilis. Glas-miant. 3. A. vitri nitore reſplendens, fibris ſeparabilibus fragillimis.
Syſt. nat. XII. 3. *p.* 55. *n.* 3. Amiantus fibroſus, fibris ſeparabilibus rigidis nitidis fragilibus.
Wall. Syſt. min. 1. *p.* 397. *n.* 4. Asbeſtus rigidus, fibris parallelis ſubtiliſſimis fragillimis.
Habitat in Sibiria & Suecia, *interdum aluminis plumoſi titulo in officinis venalis, intus ſumtum deleterium, extrinſecus olim membris paraliticis adſperſus, cinereus aut vireſcens.*

vulgaris. 4. A. inconſpicuus fibris rigidis cohærentibus fragmentis feſtucas longiores referentibus.
Syſt. nat. XII. 3. *p.* 55. *n.* 4. Amiantus (immaturus) fibroſus, fibris connatis angulatis rigidis opacis.
Wall. mineral. 144 *Vog. min.* 171. Amiantus fibris parallellis durioribus non ſeparabilibus.
Wall. Syſt. miner. 1. *p.* 396. *n.* 3. Asbeſtus durus lignoſus, fibris parallelis arcte cohærentibus non ſeparabilibus.

Habitat in Sibiria, Lapponia, Suecia, Sileſia, Saxonia, Franconia, Tyroli, *viridis vel cinereus, rarius in aureum inclinans.*

ortuoſus. 5. A. durior, fibris tortuoſis rigidis arctius connexis faſciculatis.

Syſt. nat. I. *p.* 157. *n.* 10. Talcum fibris rigidis faſciculatis intortis.

Syſt. nat. XII. 3. *p.* 57. *n.* 10. Amiantus ſolidus, faſciculis fibrarum contortis rigidis.

Wall. miner. 145. Asbeſtus fibris faſciculatis e centro varie radiantibus.

Wall. Syſt. miner. I. *p.* 398. *n.* 6. Asbeſtus ſolidus, fibris in faſciculos compactis duriſſimis, alio lapidum generi immixtis.

Habitat in Sueciæ fodina Norbergenſi.

** *fibris intricatis, in fragmenta obtuſangula diſcedentes.*

Suber. 6. A. flexilis ſuber referens aquam cum ſtrepitu imbibens linguæ adhærens.
Bergkork.

Syſt. nat. I. *p.* 159. *n.* 3. Asbeſtus ſolidiuſculus flexilis.

Syſt. nat. XII. 3. *p.* 56. *n.* 7. Amiantus corticoſus flexilis ſuberoſus.

Wall. min. 143. & *Syſt. min. p.* 400. *Vog. min.* 172. Asbeſtus fibris flexilibus inordinate ſe intercuſſantibus leviſſimus.

Habitat in Sueciæ & Saxoniæ *fodinis, albus, cinereus, vireſcens, dilute flaveſcens.*

Lignum. 7. A. lignum referens textura & colore. *Hoffm. bergm. Journ.* 1789 I. *p.* 393.
Bergholz.

Habitat prope Clauſen *in* Tyroli.

Caro. 8. A. flexilis natans lamellis craſſioribus.

Bergfleiſch. *Syſt. nat.* I. *p.* 159. *n.* 1. Asbeſtus ſolidiuſculus fiſſilis.

Syſt. nat. XII. 3. *p.* 56. *n.* 8. Amiantus corticoſus flexilis natans.

Wall. miner. 142. Amiantus fibris durioribus in lamellas craſſas compactis, ponderoſus.

Habitat in Sueciæ *fodinis ferreis, agarici medullam aut corium equinum præparatum facie vel textura referens, albicans; extima ſuperficia contexta ſæpius pilis tenuiſſi*

mis, breviſſimis, confertiſſimis, erectis quibus ſuperinducta eſt membrana nigra inæqualis, habitus hornblendæ, ſed mollities colorque diverſiſſima.

Aluta. Bergleder. 9. A flexilis natans, lamellis tenuioribus.
Syſt. nat. XII. 3. *p.* 57. *n.* 9. Amiantus corticoſus, flexilis membranaceus natans.
Wall. min. 141. & *Syſt. min.* 1. *p.* 399. *n.* 7. Amiantus fibris mollioribus intertextis, in lamellas compactus lævis.
Wall. min. 141.
Vog. miner. 171. Aluta montana.
Habitat in Sibiria, Ruſſia, Suecia, Hungaria, Carinthia, Carniolia, Tyroli, Salzburgo, Valle Tellina, Gallia, *albus, cinereus, vel dilute flaveſcens.*

argentifer. Bergzunder. 10. A. flexilis ex fuſceſcente ruber, lamellis tenuioribus, argento larvato gravidus.
Lehmann phyſic. chem. Schrift. Berlin. 1761. 8. *p.* 186.
Habitat in fodinis Hercyniæ Clausthalenſibus, Carolina & Dorothea.

4. ACTINOTUS. Ex magneſia alba, majore calcis ferræ copia, & plurima terra ſilicea conflatus.

Macer, nitens, rigidus, fragilis, paraſiticus, utplurimum viridis, *ſponte in fragmenta* granulata, vi in fragmenta indeterminata diſcedens.

Igne cum ebullitione in globulum pellucidum ſexcolorem liquandus.

fibroſus. 1. A. opacus mollis intus micans fibroſus, fibris divergentibus. *Hoffmann bergm. Journ.* 1789. 1. *p.* 163. *Karſten ibid. p.* 399.
Habitat cum pyrite in Saxoniæ *fodinis* e. g. Catharinæ *prope* Raſchau, *vitrei nitoris, aliquando ex cineraſcente albus, vel ex vireſcente aut rubeſcente albus aut cinereus, attactu pinguiuſculus.*

vulgaris. Strahl-ſchœrl. 2. A. nitidus duriuſculus pellucidus vel diaphanus radians. *Karſten bergm. Journ.* 1789. 1. p. 400

Cronſt. miner. §. 74. Baſaltes particulis fibroſis.

Wall. Syſt. miner. I. p. 322. Baſaltes radiis minimis fibroſis nitidis compoſitus.

α) A. radiis parallelis.

β) A. radiis divergentibus.

Syſt. nat. XII. 3. p. 56. Amiantus (radians) fibroſus, fibris concentratis divergentibus rigidis.

Vogel miner. 171. Asbeſtus faſciculatus.

a) radiis faſciculatis.

b) radiis ſtellatis. Stiernslag.

γ) A. radiis ſparſis.

Syſt. nat. XII. 3. p. 54. Talcum (aceroſum) ſolidum, particulis aceroſis ſpargis rigidis.

Cronſt. miner. §. 105. 2. Asbeſtus fibris conſtans abruptis & conglutinatis.

Wall. miner. 145. *Syſt. min.* I. p. 393. Asbeſtus fibris ſparſis.

Vog. min. 171. Lapis aceroſus.

δ) A. pellucidus priſmatibus hexaëdris elongatis compreſſis. *Habitat in* Suecia *fodinis ferri ferr s; in* Saxoniæ *fodinis, in* Franconiæ, Tyrolis *montibus, aliquando ex vireſcente albus, aut ex rubeſcente fuſcus, facile frangendus, paulſper pinguiuſculus attactu.*

vitreus. 3. A. vitrei nitoris ſemipellucidus duriuſculus ſubfibroſus. *Karſten bergm. Journ.* 1789. 1. p. 401.

β) A priſmatibus elongatis hexaëdris in bacillos coadunatis. *Karſt. bergm. Journ.* 1789. I. p. 401.

Habitat in montibus Salzburgenſibus, *frequentius ex viridi albus, in argenteum colorem vergens, radiis anguſtis aut fibris, interdum anguloſis conſtans, fragilimus, & facillime diffringendus.*

5. HORNBLENDA. Ex magneſia alba, æquali calcis ferreæ & fere æquali terræ calcariæ copia conflata.

Mollis opaca, coloris utplurimum obſcuri, ſcriptura inquinans, lamelloſa, diffracta in fragmenta indeterminata diſcedens.

Igne cum ebullitione in globulum nigrum opacum liquanda.

vulgaris. 1. H. vix nitens in quavis directione diffracta obſcuri coloris & lamellas radioſve monſtrans.

Syſt. nat. I. *p* 156. *n.* 2. XII. 3. *p.* 53. *n.* 9. Talcum (Corneus) ſolidum ſuberoſum nigrum, ſuperficie atra glabra, tritura albida.

Walter. miner. p. 240. Pſeudogalena durior cinereo nigra teſſularis.

Waller. Syſt. min. I. *p.* 359. Corneus facie ſpathuſea ſtriata.

Cronſt. mineral. § 88. Bolus indurata, particulis ſquamoſis.

Habitat potiſſimum tanquam pars variarum terrarum aggregatarum, ferri quoque calcibus induratis inhærens rarius ſola in ſchiſti ſpeciem concreta integra ſtrata conſtituens, in Suecia, Burgundia, Saxonia, Luſatia, Bohemia, Carpathicis *montibus obſcure viridis vel nigra raro priſmatica, parum nitens, lamellis non raro incurvis, duplici via ſub angulo obliquo utplurimum ſe ſecantibus, fragmentis, in quæ ſponte diſſolvitur creberrime granulatis rarius incurvo-cruſtoſis, in furnis ferri fuſoriis egregii uſus.*

labradorica. 2. H. ſubopaca nitidula, lamellis incurvis, diffractæ ſuperficie interna ex cupreo nigra. *Hoffmann bergm. Journ.* 1789. I. *p* 391.

Habitat vaga in inſula S. Pauli *ad littora* Labrador *Americæ borealis, fragmentis in quæ ſponte ſecedit, incurvo cruſtoſis; an diſtincta hujus generis ſpecies?*

balſaltina. 3. H. nitida duriuſcula ſcriptura ex cineraſcente alba inqui-nans, longitudinaliter diffracta lamellas rectas oſten-dens, priſmata hexaëdra & octaëdra utrinque in aciem terminata ut plurimum exilia referens.

Hoffm. bergm. Journ. 1788. 2. *p.* 508.

Habitat in waccis, baſaltis, lav's Europæ, *firmiſſime innata; utrum certe hujus generis, an potius ad olivi-num ſpectat?*

An Blenda granatina & turmalina, fragmentis convexis ab aliis diſtans, quas Cl. Noſe orograph. Briefe I. *p.* 121. *baſalti rhenano innidulantes vidit, diſtinct. hujus aut ſcorli ſpecies, an varietas baſaltinæ?*

ORDO II.

TERRÆ PONDEROSÆ.

Quæ terram ponderoſam largiorem continent.

6. BARYTIS. Ex terra ponderoſa ferre tota conſtans.

Ponderoſa, paraſitica, fragillima, macra, mollis.

Acido vitrioli forti bulliente tota ſolvenda, igne primum cohæſione partium orbanda, tum ſine ebullitione liquanda.

* *aëre fixo impregnatæ, quem demum ſi ignis vi liquantur neque tunc omnem dimittunt, hinc effervescentes cum acidis.*

Witheringii. 1. B. figuræ communis, texturæ æquabilis.
Withering. act. angl. 74. 2. *p.* 293.
Sage apud la Mecherie journ. de phyſ. 1788. *Apr. Dun.*
Habitat in Lancaſtria *prope* Anglezark, *in* Cambaia *prope* Aſaph, *in* Scotia, *diaphana, vireſcens, frequentius alba, lamelloſa, crebro terra calcaria aut aluminari, calce ferrea aut baryte vitriolica inquinata.*

lamelloſa. 2. B. lamelloſa, figuræ cryſtallinæ ſemipellucida exterius lævis intus nitens.

α. priſmatibus tetraëdris obliquangulis faſciculatis. *Berg. chem. Annal.* 1784. 2. *p.* 388.

β. priſmatibus hexaëdris utrinque pyramide hexaëdra terminatis. *Walt. bergm. Journ.* 1790. 9. *p.* 225.

γ. tabulis tetraëdris obliquangulis, marginibus terminalibus obtuſis in aciem exeuntibus acutis truncatis. *Bendheim Schr. berl. Naturſ.* 4. *p.* 396.

δ. pyramidibus hexaëdris duplicibus.
Habitat α) *in* Scotia *prope* Leadhills, *β* & *δ*) *in* Lancaſtria *prope* Anglezark, *β*) *in* Saxoniæ *fodina* Freybergenſi *ab* Iſaaco *denominata, alba, diaphana.*

** *Vitrioli acido ſaturatæ, hinc cum acidis non efferveſcentes, poſtquam inter prunas candefactæ ſunt in tenebris lucentes.*

terreſtris. 3. B. friabilis.

Chaulk. α. pulverulenta.

β. coagmentata.

Habitat in Angliæ *fodinis plumbariis provinciarum* Stafford & Derby, *in* Saxoniæ *fodinis quibuſdam* Freybergenſibus, *in foveolis tenacius cohærentis nidulans, ex flaveſcente aut rubeſcente alba.*

compacta. 4. B. ſubopaca nitida, diffracta feſtucas referens, fragmentis indeterminatis acutangulis.

Habitat in Saxoniæ & Angliæ *fodinis, ex flaveſcente alba vel cinerea, dilutiſſime flava vel pallide carnea, figuræ communis, reniformis aut hemiſphæricæ, intus micans vel parum nitens vel omnis nitoris expers, fractura rariſſime terram referens.*

bononienſis. 5. B. diaphana nitida ſubfibroſa, diffracta in fragmenta ſubrhomboidea diſcedens.

Syſt. nat. I. *p.* 182. *n.* 4. *Muſc. teſſin.* 66. *n.* 4. Stannum ſparti.

Syſt. nat. XII. 3. *p.* 99. *n.* 6. Muria (phoſphorea) lapidoſa ſpatoſa aggregata lenticularis centricoſo-fiſſilis ſubeffervescens.

Dal. pharm. 48. *Worm. muſ.* 46. *Vogel min.* 161. Lapis bononienſis.

Aldr. muſ. 688. Lapis illuminabilis.

Bocc. nat. 224. Phoſphorus ſ. petra lucida bononienſis.

Act. Stockh. 1753. *Cronſt. miner.* §. 18. *n.* 2. A. Spatum bononienſe.

Wall. miner. 50. Gypſum irregulare lamelloſum, calcinatum in tenebris lucens.

Waller. Syſt. min. 1. *p.* 162. Gypſum ſpatoſum globoſum ſemipellucidum.

Marſigl. diſſert. epiſt. du foſforo minerale. 4. *Lipſ.* 1698.

Habitat prope Bononiam Italiæ *vagus, fragmentis obtuſangulis ſubrotundis ſuperficie inæqualibus, colore ſumum referens, ſecundum certas directiones fiſſus fibroſus, alias potius lamellatus, interdum ſponte in fragmenta granulata diſcedens.*

6. B.

lamellata. 6. B. intus micans frondoſe lamelloſa fragmentis, in quæ ſponte ſecedit, cruſtoſis, cruſtis craſſioribus lamellas ſub angulo recto ſecantibus.

Hoffmann bergm. Journ. 1789. 1. *p.* 227.

Habitat in Saxoniæ & Tranſilvaniæ *fodinis nonnullis* Freybergenſibus, *alba vel cinerea, dilutiſſime flaveſcens aut ex fuſceſcente rubra, interdum forma lentium exilium aut tabularum tetraëdrarum in ovi renis, ſphæræ ſpeciem aggregatarum, reniformis, aut celluloſa.*

Vulgaris. 7. B. lamelloſa diffracta in fragmenta rhomboidalia, ſponte in cruſtoſa convergentia diſcedens.

α) ſiguræ communis.

Waller. ſyſt. miner. 1. *p.* 161. Gypſum irregulare ſpathaſeum graviſſimum.

Cronſt. mineral. §. 18. 2. B. Marmor metallicum opacum.

β) ſiguræ cryſtallinæ.

Cronſt. min. §. 19. E. 2. Marmor metallicum druſicum.

a) tabularum.

a) tetraëdrarum.

obliquangularum.
rectangularum.
perfectarum.

angulis obtuſioribus
faciebus duabus terminalibus
faciebus omnibus terminalibus
faciebus & angulis
angulis truncatis
connatarum
} in aciem terminatis.

in cellulas
tabulas
faſciculos
amygdalos
lentes
globulos
} aggregatarum.

b) hexaëdrarum.

c) octaëdrarum.

b) priſmatum.

a) tetraëdrorum.

rectangulorum.
obliquangulorum.
craſſiorum.
acicularium.
capillarium.

perfectorum.
utrinque pyramide tetraëdra terminatorum.
faciebus terminalibus in aciem rarius duplicem terminatis.
ſparſis.
connatis.
parallele.
decuſſatim.
aggregatis.
in faſciculos.
-- bacillos, *Stangenſpat.*
v. Born Index foſſ. Prag. 8. 1. 1772. *p.* 34. Baſaltes albus cryſtallis hexaëdro-priſmaticis truncatis inordinatim aggregatis.
Ferber Briefe aus Waelſchland über natürliche Merkwürdigkeiten dieſes Landes. Prag. 1773. 8. *p.* 281. Stangenſpat.

b) hexaëdrorum.
perfectorum.
utrinque pyramide tetraëdra terminatorum.
utrinque in aciem terminatorum.
Syſt. nat. XII. 3. *p.* 90. *fig.* 16. Natrum (criſtatum) lapidoſum ſpatoſum decaëdrum priſmaticum apice parallelo.
Muſ. Teſſ. 26. *n.* 2. Natrum ſpatoſum, cryſtallis truncatis apice compreſſis.
Amœn. ac. 1. *p.* 474. *n.* 2. 3. 4. *t.* 16. *f.* 2. 4. Cryſtallus natriformis ſpatoſa hyalina ſ. incarnata.
Cronſt. min. §. 19. E. 2. A. Marmor metallicum druſicum criſtatum.
Wall. ſyſt. miner. 1. *p.* 164. *n.* 9. c. Gypſum cryſtalliſetum criſtatum.
aciebus integris.
aciebus truncatis.
angulis terminalibus truncatis.
connatorum.
ſuperimpoſitorum.
adnatorum.
decuſſantium.
in cellulas.
ſolitariorum.

c) pyramidis.
duplicis tetraëdræ.

d) lentis.
tetraëdræ planæ.

Habitat, frequens metallorum, etiam nobilium, matrix, in Norwegiæ, Herciniæ, Thuringiæ, Saxoniæ, Bohemiæ, Sileſiæ, Sueciæ, Hungariæ, Tranſilvaniæ *fodinis, rarius inconſpicua, quam, in cryſtallis potiſſimum, nitida, nonnunquam nitidiſſima, ſuperficie ſcabra, cryſtallorum lævi, utplurimum diaphana, in cryſtallis pellucida, rarius ſemipellucida vel ſubopaca, frequentiſſime nivea, argentea vel ex cæruleſcente, cineraſcente, vireſcente, rubeſcente aut flaveſcente alba, crebro carnea, infumata, mellea, vinacea, rarius olivacea, vel ex vireſcente aut flaveſcente cinerea vel ex cineraſcente nigra, rariſſime cærulea, lamellis utplurimum rectis, interdum incurvis, fragmentis, in quæ quaſi ſponte ſæpe diſcedit, cruſtoſis: cruſtis nunc tenuioribus nunc craſſioribus rarius incurvis, quam rectis, parandis teſtis, in quibus argentum igne depuratur idonea.*

ſtillatitia. 8. B. formæ rotundatæ, vel alia corpora obducens.

Habitat in Hercyniæ *monte* Iberg, *ortu & forma externo ſtalactitæ, reliquis dotibus barytidi vulgari ſimilis.*

7. CROSSOPETRA. Ex terra ponderoſa, plurima ſilicea, pauca aluminari conflata.

Leviuſcula, dura, paraſitica, macra, cryſtallina.

Acido vitrioli etiam bulliente non tota ſolubilis, *igne difficilius liquanda.*

hercynica. Kreuzkriſtalle. 1. Cr. tabulis vel priſmatibus tetraëdris rectangulis altero fine in aciem terminatis transverſe ſtriatis, binis ſecundum longitudinem cruciatim invicem ſecantibus.

Heyer chem. Ann. 1789. 1. *p.* 212. & *Beytr. zu den chem. Annal.* 2. *p.* 36.

Habitat ſpato calcario inſidens in fodinis Hercynicis *prope* Andreasberg, *cryſtallis aggregatis minoribus, partim exiliſſimis, rarius pellucidis quam diaphanis aut opacis, lacteis, hyalinis, flaveſcentibus, ad chalybem*

non ſemper ſcintillans ; in vitro tamen rimas agens ; addita borace vel oſſium acido igne cum ebullitione liquanda.

ſcotica. 2. Cr. tabulis vel priſmatibus tetraëdris rectangulis altero fine in aciem exeuntibus non connexis. *Groſchke Bergbauk.* I. *p.* 399.

Habitat in Scotiæ *fodinis prope* Strontian, *cryſtallis quoque majoribus diſtincta.*

ORDO III.

TERRÆ CALCARIÆ.

Ex terra calcaria potiſſimum conflatæ.

8. CRETA. Ex terra calcarea & aëre fixo conflata, paucis peregrinis immiſtis.

Friabilis, cum acidis efferveſcens & tota fere in his ſolubilis.

Igne in calcem abiens, ne fortiſſimo quidem in vitrum.

conchacea. Muſchelſand. 1. Cr. ex teſtaceis exilibus & exiliſſimis non cohærentibus conſtans non inquinans inconſpicua.

Syſt. nat. I. *p.* 206. Creta terreſtris conchacea.

Syſt. nat. XII. 3. *p.* 206. Calx (conchacea) ſolubilis furfuracea.

Cronſt. mineral. §. 281. 1. b. Humus conchacea.

Waller. min. 7. *n.* 2. Humumus animalis non terrifica.

Wal. ſyſt. m. 1. *p.* 24. *n.* 8. b. Humus animalis conchacea.

Habitat in Helſingiæ, Roſlagiæ, Hetruriæ *maritimis, in* Saxonia *prope* Pirnam, Palatinatu Rhenano *prope* Alzei, Wirtembergia *prope* Heidenheim, *vix, nec ſemper humo tecta.*

granulata. 2. Cr. granulis rotundatis glaberrimis lacteis opacis non inquinantibus.

Syſt. nat. XII. 3. *p.* 208. *n.* 8. Calx (teſtacea) ſolubilis arenaceo-granulata rotundata glaberrima.

Habitat v. g. *ad* inſulæ Aſcenſionis *littora, teſtudini Mydæ ad deponenda ova inſerviens, ex teſtaceis & lithophytis a fluctibus maris, aut calcariis durioribus a fluviorum torrentibus comminutis contritis lævigatis nata.*

teſtacea. 3. Cr. ex teſtis teſtaceorum comminutis nata inconſpicua non inquinans.

Syſt. nat. XII. 3. *p.* 207. *n.* 4. Calx (teſtacea) ſolubilis ſquamoſa cinerea.

Habitat in Belgii, Angliæ e. c. *maritimis.*

ſquamoſa. 4. Cr. ſquamis pinguiuſculis niveis nitidis inquinantibus. *Gerhard Beytr. 3. Mineralr.*1.*p.* 359. Talcum terreum *Habitat prope* Geram Variſcorum.

pulverulenta. 5. Cr. pulverulenta inconſpicua ſcabra inquinans. *Habitat* v. g. *in* Anglia, *cretam ſcriptoriam, in regione* Romæ, *omnem terræ ſuperficiem tegens.*

farinacea. Bergmeel. 6. Cr. natans laxe cohærens inquinans, particulis ſubtilioribus.

Syſt. nat. I. *p.* 206. Creta terreſtris alba ſ. purpuraſcens.
Syſt. nat. XII. 3. *p.* 206. *n.* 2. Calx ſolubilis purpurea.
Waller. miner. p. 10. Creta fragilior & groſſior rudis alba.
Wal. ſyſt. min. 1. *p.* 26. *n.* 2. Creta pulverulenta rudis.
Cronſt. miner. §. 5. I. 1. Creta pura pulverulenta.

Habitat in depreſſioribus antris, ad radices montium calcariorum, *ex detritis horum & per aquam abductis particulis vel fatiſcente ſtalactite vulgari nata, utplurimum alba, rarius rufa, flava, viridis, cinerea, fuſca, interdum in loco natali fluida, incruſtandis parietibus hinc inde adhibita.*

ſcriptoria. Kreide. 7. Cr. ſolida ſcabra linguæ parum adhærens inconſpicua opaca ſcriptura inquinans, fragmentis indeterminatis.

Syſt. nat. I. *p.* 206. *Muſ. Teſſin. p.* 108. Creta ſubrupeſtris alba.

Syſt. nat. XII. 3. *p.* 206. *n.* 1. Calx (Creta) ſolubilis impalpabilis cohærens.

Carth. miner. 9. Creta dura.

Waller. miner. 8. *ſyſt. miner.* 1. *p.* 15. *n.* 1. Creta cohærens ſolida.

Cronſt. miner. §. 6. Creta ſolida friabilis.

Coſt. foſſil. 77. Creta vulgaris.

Habitat in Daniæ, Angliæ, Galliæ, *maritimis, integros colles conſtituens, echinorum & teſtaceorum veſtigiis referta, rarius cinerea quam alba, ſcriptorio & delineatorio aliisque uſibus celebris.*

9. TOPHUS. Ex terra calcaria potiſſimum conſtans. Ex aqua infra aquam præcipitatus. *Poroſus, inconſpicuus.*

communis. 1. T. in aquarum frigidarum per montes & ſtrata calcaria ductarum fundum delabens, figuræ communis.

Syſt. nat. I. *p.* 191. XII. 3. *p.* 183. *n.* 3. *Muſ. Teſſ.* 76. *n.* 4. *Schreb. lithol.* 94. Stalactites marmoreus ſolidus.

Wall. ſyſt. min. 2. *p* 389. *n.* 10. Stalactites calcareus ſolidus vel cruſtoſus, figura incerta.

Cronſt. miner. §. 12. 1. *c.* Stalactites figura incerta.

Habitat per omnem terrarum orbem, *nunc ad aërem indurandus, nunc fatiſcens, aliorum atque aliorum colorum, prima ſæpius ſtratorum calcareorum materia, calci urendæ, ædificiis ſtruendis, moſaicæ picturæ fundamento ſternendo (pietra travertina) inſerviens.*

Oſteocolla. 2. T. calcarius ſubcylindricus perforatus. *Syſt. nat.* I. *p.* 189. XII. 3. *p.* 189. *n.* 16. *Muſ. Teſſin.* 72. *n.* 2.

Vog. min. 258. Tophus margaceus cylindricus perforatus.

Gron. ſuppl. 16. *n.* 8. Tophus argillæ ramoſus & fiſtuloſus.

Wolt. min. 43. *Baum. min.* 1. *p.* 194. Stelechites radix petrificata, cortice arenaceo lapideſcente.

Wall. min. 335. Petrificatum vegetabile radiis arborum.

Wall. ſyſt. min. 2. *p.* 382. *n.* 6. Stalactites calcareo arenoſus circa radicem Vegetabilem concretus.

Act. angl. 1745. *p.* 378. *Act. berol. Cronſt. min.* §. 283. b. *Dal. pharm.* 43. Oſteocolla.

Habitat in Sileſia, Marchia, *principatu* Goettingenſi, *longus, teretiuſculus, congeſtus e terra calcaria ſpongioſa inæquali albida, natus e materia calcaria tenuiſſima frequenter ſabulo aut argillæ mixta, & ſæpe variarum arborum pini, quercus, fraxini, populi altius ſepultis radicibus circumnata; radices hæ tractu temporis humidi affluxu carioſæ putrefactæ, colliqueſcentes, excavatæ largiuntur locum oſteocollæ, dum cavitates replentur aquis ſoluta & allata terra calcaria ut omne cavum prorſus repleat; docent hoc ligni, corticis nervorumque contextus celluloſi qui amplectuntur foſſilis ramenta arctius. D. Gleditſch ep.* 1747.

Olim a chirurgis in curandis oſſium fracturis adhibitus.

incruſtans. Rindeſtein. 3. T. corpora vegetabilia & animalia quaſi cortice obducens eorumque figuram ſibi ſumens.

Syſt. nat. I. *p.* 191. *n.* 1. *Muſ. Teſſin.* 76. *n.* 1. Stalactites cretaceus incruſtans.

Syſt. nat. XII. 3. *p.* 183. *n.* 1. Stalactites vegetabilia incruſtans.

Gron. ſuppl. 55. *n.* 6. Stalactites argillæ calcariæ hypnum involvens.

Wall. min. 329. Porus aquæ cruſtaceus circa alia corpora concretus.

Wall. ſyſt. miner. 2. *p.* 380. *n.* 5. Stalactites calcareus cruſtaceus vel per ſe in canalibus vel circa alia corpora duriora concretus.

Carth. min. 23. Calcarius ex aqua generatus.

Habitat in Suecia, Germania, &c. *ramulos, folia arborum, aculeos, muſcos, plantas alias potiſſimum aquaticas, ova, cancros, aves earumque nidos & partes varias obducens & aërem arcendo contra putredinem muniens, ut certe multi, quos vocant ornitholithi, aſtacolithi, lith biblia huc potius ſpectent.*

lebetum. Waſſerſtein. 4. T. lebetum in quibus aqua coquitur parietibus internis adhærens.

Syſt. nat. I. *p.* 32. *n.* 1. XII. 3. *p.* 188. *n.* 12. *Schreb. lithol.* 86. Tophus calcarius lebetum.

Wall. min. 297. Porus aqueus aqua ſimplici generatus.

Wall. ſyſt. miner. 2. *p.* 392. *n.* 15. Tophus fuſibilis terreſtris, aqua ſimplici generatus.

Habitat in ahenis aliisque vaſis *in quibus aqua coquitur, terram quam aëris fixi interventu diſſolutam tenuerat, hoc per ignem fugato dimittens, in fontana aqua copioſius quam in pluviali, rarius ab omni terra ſilicea liber.*

thermalis. 5. T. receptaculorum & canalium aquæ thermalis fundum & parietes obducens.

Syſt. nat. XII. 3. *p.* 189. *n.* 13. Tophus calcarius granulatus.

Vand. diſſ. 18. Lapis in canalibus.

Habitat in thermis e. g. Carolinis, Wisbadenſibus & *aliis, ut ſæpe repleat canales, frequentius albus quam tinctus, interdum eleganter pictus, nunc minus nunc magis compactus, nonnunquam adeo ut egregiam polituram admittat.*

P. *Fr. Uibelacker Syſtem der Carsbader Sinters, &c. Erlang. fol. Ausg.* I-IV. 1781. 1782.

Cremor. 6. T. lamelloſus, lamellis diaphanis.
Gerhard Mineralſ. p. 45. *n.* 1. Porus pulverulentus, lamellis amorphis.
Habitat in aquis *præſertim* calidis, *terram calcariam continentibus, quarum ſuperficiei pelliculæ ad inſtar innatat.*

teſtaceus. 7. T. e teſtarum fragmentis aggregatis conſtans nondum induratus.
Habitat paſſim in Anglia, Hiſpania, Gallia, Palatinatu Rhenano, Wirtembergia, Gadibus *ædificiis ſtruendis inſerviens.*

10. SPATUM. Ex terra calcaria, plurimo aëre fixo & aqua conſtans.

Lamelloſum, nitidum, paraſiticum, molle, leviuſculum, in fragmenta rhomboidea diſſiliens.

In igne crepitans.

* *figuræ communis.*

opacum. 1. Sp. opacum vel ſubopacum.
Syſt. nat. I. *p.* 153. *n.* 4. XII. 3. *p.* 49. *n.* 5. Spatum ſolubile ſubdiaphanum compactum.
Walier. ſyſt. miner. 1. *p.* 137 *n.* 1. Spatum rhomboidale opacum.
Cronſt. miner. §. 10. 2. *β*. Spathum calcareum rhomboidale opacum.
β) fragmentis irregularibus.
Syſt. nat. I. *p.* 153. *n.* 7. XII. 3. *p.* 49. *n.* 7. Spatum (calcarium) ſolubile ſubopacum compactum, fragmentis ſubſquamoſis.
γ) nitore variabili.
Syſt. nat. XII. 3. *p.* 49. *n.* 10. Spatum (fugax) ſolubile opacum ſecundum ſitum lucis fugax.
Habitat in Norwegia, Suecia, Germania, Helvetia, Hungaria, *γ*) *cruſtæ lividæ ad inſtar cujus particulæ omnes angulis ſuis unum latus ſpectent in aliorum lapidum ſuperficie, ceterum frequentiſſime album, aliquando cinereum, cæruleſcens, vireſcens, flaveſcens, rubrum, nigricans.*

arenarium. 2. Sp. diaphanum, lamellis inordinatim congeſtis.
Syſt. nat. XII. 3. *p.* 50. *n.* 9. Spatum (confuſum) ſolubile ſubdiaphanum, rhombis confuſis.
Wall. min. 55. Spatum particulis diſperſis irregularibus.
Wall. ſyſt. min. I. *p.* 138. *n.* 3. Spatum particulis diſperſis rhomboidalibus irregulariter congeſtis.
Habitat in Suecia & Saxonia, *album, griſeum, rubrum, fuſcum aut viride.*

pellucidum. 3. Sp. pellucidum.
α) hyalinum.
Syſt. nat. I. *p.* 153. *n.* 1. XII. 3. *p.* 48. *n.* 1. Spatum (ſpeculare) ſolubile pellucidum, objectis ſimplicibus.
Waller. min. 56. & *ſyſt. min.* I. *p.* 139. *n.* 4. a. Spatum pellucidum molle album.
Cronſt. miner. §. 10. 1. α. 2. 1. Spatum rhomboidale diaphanum non duplicans album.
Scheuchz. it. alp. p. 324. & 542. Androdamus Plinii.
β) tinctum.
Syſt. nat. XII. 3. *p.* 50. *n.* 6. Spatum ſolubile pellucidum coloratum.
Muſ. Teſſ. 16. *n.* 8. Spatum compactum pellucidum tinctum.
Waller. ſyſt. min. I. *p.* 139. *n.* 4. b. c. d. e.
Cronſt. miner. §. 10. 1. α. 2. 2.
γ) objecta duplicans.
Syſt. nat. I. *p.* 153. *n.* 2. XII. 3. *p.* 48. *n.* 2. Spatum ſolubile pellucidum objecta duplicans.
Cronſt. miner. §. 10. *n.* 1. α. 1. Spatum rhomboidale diaphanum objecta duplicans.
Carth. min. 12. Spatum informe molle diaphanum objecta duplicans. *Carth. min.* 12.
Waller. miner. 57. *ſyſt. miner.* I. *p.* 140. *n.* 5. Spatum pellucidum objecta duplicans.
Woltersd. min. 19. Spatum alcalinum amorphum islandicum.

Spatum in cippis Runicis recreſcere ex ipſius ſaxi litteris excavatis, memorabile eſt. It. gotl. 327.

Spati generationem videre eſt in Stalactita.

Spati particulæ rhombeæ probe diſtinguendæ a cryſtallis, cryſtalli enim ſpatoſæ diverſiſſima ſigura gaudent ab earum particulis rhombeis conſtitutivis.

Er. Bartholini experimenta cryſtalli islandici disdiælaſtici, quibus mira & inſolita refractio detegitur. Haſn. 1669.

4. Cryſtallus islandicus.

Habitat in Ruſſiæ, Lapponiæ, Norwegiæ, Sueciæ, Saxoniæ, Herciniæ, Helvetiæ *montibus*, γ) *frequentius in* Islandia, β) *flavum flaveſcens, olivaceum, vireſcens, cæruleſcens, infumatum, nigricans, rarius rubrum aut venis pictum, interdum poſt calcinationem inter prunas peractam in tenebris lucens.*

** *figuræ peculiaris.*

cellulosum. 4. Sp. ſuperficie in cellulas partita.
Habitat in Hungaria, Hercynia.

ſtalactiticum. 5. Sp. figuræ ſubcylindricæ.
β) Spatum batryoides.
γ) Spatum fruticuloſum.
Habitat. v. g. *in* Bohemia, Hungaria.

globoſum. 6. Sp. figuræ ſubgloboſæ denſum.
Syſt. nat. I. *p.* 195. XII. 3. *p.* 179. *n.* 4. Aëtites (marmoreus) marmoreus, embryonibus fixis cryſtallinis Natri hyodontis.

It. cel. 136. *Act. Stockh.* 1740. *t.* 2. *f.* 18. *Muſ. Teſſ.* 80. *n.* 3. Pomum cryſtallinum.

Cronſt. miner. §. 11. b. 2. Spatum druſicum, cryſtallis pyramidalibus concretis.

β) Spatum reniforme.
Habitat v. g. *in* Hungariæ & Tranſilvaniæ *fodinis*, Helvetia, Suecia, *intus ſæpe ex cryſtallis priſmaticis aut pyramidalibus ſtellatim convergentibus conflatum.*

inane. 7. Sp. ſubgloboſum, globis inanibus.
v. Born ind. foſſil. 1. *p.* 9.
Habitat in fodina Hungariæ Shemnizenſi a Chriſtina *denominata.*

*** *figuræ cryſtallinæ.*

bracteatum. 8. Sp. tabulis hexaëdris.
Wal. ſyſt. min. 1. *p.* 143. *n.* 6. l. m. *Born ind. foſſ.* 1. *p.* 8. 2. *p.* 80. Spatum cryſtalliſatum lamelloſum.

β) tabulis ſuborbicularibus.

Syſt. nat. XII. 3. *p.* 86. *n.* 5. γ. *Amoen. acad.* I. *p.* 479. *t.* 16. *f.* 18. Cryſtallus ſubnitriformis ſpatoſa plana ſuborbicularis hexaëdra.
v. Born ind. foſſ. 2. *p.* 80. Spatum cryſtalliſatum ſuborbiculare.
γ) tabulis ſparſis.
δ) tabulis imbricatis.
Syſt. nat. XII. 3. *p.* 86. *n.* 5. δ. *Amoen. acad.* I. *p.* 480. *t.* 16. *f.* 19. Cryſtallus ſubnitriformis ſpatoſa plana trifariam imbricata.
ε) tabulis in ſeries aggregatis.
Karſten Lesk. Mineralkab. I. *p.* 256.
ζ) tabulis in roſæ formam aggregatis.
η) tabulis in cellulas aggregatis.
v. Born ind. foſſ. I. *p.* 8. Spatum calcarium figuratum lamelloſum, lamellis mæandriformibus.
θ) tabulis in priſma aggregatis.
v. Born ind. foſſ. 2. *p.* 80. Spatum cryſtalliſatum lamelloſum album, lamellis diſtinctis in priſma aggregatis.
ι) tabulis in pyramidem aggregatis.
Karſten Lesk. Mineralkab. I. *p.* 256.
Habitat in Nericia Sueciæ, Scotia, Hercynia, Saxonia, Bohemia, Hungaria, Tranſilvania, *rarius flaveſcens, melleum, carneum aut roſeum quam album, nunc pellucidum, nunc diaphanum, nunc ſubopacum, colore nitore pelluciditatis gradu interdum matrem perlarum referens.*

cubicum. 9. Sp. cryſtallis perfecte cubicis aggregatis.
Syſt. nat. XII. 3. *p.* 99. *n.* 5. Muria (teſtarum) lapidoſa ſpatoſa aggregata ſparſa efferveſcens.
Wall. ſyſt. miner. I. *p.* 141. *n.* 6. a. Spatum cryſtalliſatum cubicum.
Habitat in Dalecarlia Sueciæ, *in* Saxoniæ *fodinis prope* Kamsdorf & Scharfenberg, *in* Temeſienſi *prope* Moldava, *cubis minutis, rarius mali perſicæ flores colore æmulantibus quam albis, interdum in uvæ aut ſphæræ ſpeciem aggregatis.*

rhombeum. 10. Sp. cryſtallis aggregatis cubicis, faciebus obliquangulis. Fig. 22.
Syſt. nat. I. *p.* 164. *n.* 4. *t.* 8. *f.* 13. XII. 3. *p.* 100. *n.* 9. *Amoen. acad.* I. *p.* 481. *t.* 16. *f.* 21. *Schr. lith.* 44. *Muſ. Teſſin.* 36. *n.* 7. Muria lapidoſa ſpatoſa ſolitario-rhombea fixa.

Carth. min. 13. Spatum cryſtalliſatum, cryſtallis rhomboidalibus.

β) Spatum rhombeum, marginibus duobus obtuſis oppoſitis truncatis.

Karſten Lesk. Mineralkab. 1. *p.* 260.

γ) Spatum rhombeum, faciebus convexis.

Karſten Lesk. Mineralkab. 1. *p.* 259.

Habitat in Saxoniæ, Thuringiæ, Franconiæ *fodinis, utplurimum album.*

triedrum. 11. Sp. priſmatibus triedris pyramide triedra terminatis.

Gerh. Mineralſ. p. 47. Porus prismaticus.

Habitat. . . . .

tetraëdrum. 12. Sp. priſmatibus tetraëdris. *v. Born ind. foſſ.* 1. *p.* 6. 8. 2. *p.* 78.

β) Spatum priſmatum faciebus alternis anguſtioribus.

γ) Spatum ſuperficie rugoſa.

δ) Spatum priſmatum faciebus terminalibus in aciem exeuntibus.

ε) Spatum priſmatibus utrinque pyramide tetraëdra terminatis.

Habitat in Sileſiæ *fodinis prope* Schmotſeifen, Hungariæ *fodinis prope* Schemniz & Boinick, *in* Carniolicis *prope* Idriam, *ſtiriacis prope* Eiſenerz, *bohemicis prope* Joachimsthal, ſaxonicis *prope* Freyberg, ſcoticis prope Strontiam, *nunc opacum, nunc pellucidum, frequentius album quam rubeſcens aut vireſcens.*

priſmaticum. 13. Sp. priſmatibus perfectis hexaëdris. Fig. 5.

Syſt. nat. XII. 3. *p.* 86. *n.* 5. Nitrum (truncatum) lapidoſum ſpatoſum octaëdrum, priſmate hexaëdro utrinque truncato.

Amoen. acad. I. *p.* 479. *t.* 16. *f.* 16. *Muſ. Teſ.* 28. *n.* 4. Cryſtallus ſubnitriformis ſpatoſa utrinque truncata.

Cronſt. min. §. 11. a. Cryſtalli ſpatoſi hexagoni truncati.

Wall. miner. 58. *f.* 5. Spatum cryſtalliſatum priſmaticum hexaëdrum truncatum.

Wall. ſyſt. miner. 1. *p.* 142. *n.* 6. f. Spatum cryſtalliſatum hexangulare priſmaticum oblique truncatum.

Wolt. miner. 19. Spatum alcalinum priſmaticum hexaëdrum utrinque truncatum.

β) Spatum priſmaticum, faciebus terminalibus convexis.

γ) Spatum faciebus terminalibus in aciem terminatis.

δ) Spatum priſmaticum, faciebus alternis anguſtioribus. Fig. 6.

Amoen. acad. p. 479. Cryſtallus ſubnitriformis ſpatoſa, priſmatis lateribus alternis anguſtioribus.

ε) Spatum priſmaticum, faciebus duabus oppoſitis reliquas longe ſuperantibus.

ζ) Spatum priſmaticum in igne lucem ſpargens.

Habitat in Hercyniæ, Saxoniæ, Sileſiæ, Hungariæ, Derby Angliæ, Norwegiæ *liberum in humo prope* Bejonam Aquitaniæ *fodinis*, ζ) *in* Arragonia & Valencia Hiſpaniæ, *utplurimum album & frequenter pellucidum cryſtallis* δ) *interdum geminis, crebrius aggregatis ſparſim aut in ſeries, nonnunquam ita ut gradus ſcalæ referant, majoribus vel tenuioribus.*

dodecaëdron. 14. Sp. priſmatibus hexaëdris utrinque pyramide triedra terminatis. Fig. 11.

Syſt. nat. XII. 3. *p.* 91. *n.* 11. Natrum lapidoſum ſpatoſum dodecaëdrum priſmate hexaëdro, pyramidibus triedris, planis omnibus pentagonis.

Muſ. Teſſin. 26. *t.* 2. *f.* 5. Nitrum ſpatoſum cauleſcens, pyramidibus triedris lateribus pentagonis.

Scop. hydrarg. Cryſtallus ſpatoſa priſmatica ſubereċta pellucida vitrea.

Wall. ſyſt. miner. 1. *p.* 143. *n.* 6. 1. Spatum cyſtalliſatum dodecaëdrum.

β) Spatum pyramidum marginibus truncatis.

γ) Spatum pyramidum apicibus truncatis.

Syſt. nat. XII. 3. *p.* 86. *n.* 6. Natrum (14edrum) lapidoſum ſpatoſum decateſſeraëdrum, priſmate triedro ſubhexagono, pyramidibus truncatis.

Amoen. acad. 1. *p.* 479. *t.* 16. *f.* 17. Cryſtallus ſubnitriformis ſpatoſa utrinque truncata triquetra, angulis omnibus planis.

Waller. ſyſt. miner. I. *p.* 143. *n.* 6. k. Spatum cryſtalliſatum tetradecaëdrum priſmaticum.

δ) Spatum pyramidum faciebus convexis.

ε) Spatum priſmate breviſſimo.

v. Born ind. foſſ. 1. *p.* 5. *t.* 1. *f.* 2.

ζ) Spatum cryſtallis in globi faciem aggregatis.

Syſt. nat. XII. 3. *p.* 191. *n.* 19. Tophus (ſpatoſus) ſpatoſus ſubrotundus tunicatus, marginibus ſerratis.

Muſ. Teſſin. 14. *n.* 1. Spatum orbiculatum tunicatum, marginibus ſerratis.

Habitat in Palatinatus rhenani, Hercyniæ, Saxoniæ, Sileſiæ, Hungariæ, Temeſiæ, Tranſilvaniæ, Angliæ

(Derby) *fodinis, utplurimum pellucidum, rarius flaveſcens aut vireſcens quam album, pyramidibus interdum depreſſis cryſtallis, nunc tenuioribus nunc craſſioribus, geminatim ſibi adnatis, ſub angulo recto ſe ſecantibus, aut in ſeries, faſciculos, bacillos globi, olivæ, pyramidis formam aggregatis.*

octodecaëdrum. 15. Sp. priſmatibus hexaëdris utrinque pyramide hexaëdra terminatis.

β) Spatum priſmatibus hexaëdris ſupra pyramide hexaëdra terminatis, pyramidis marginibus priſma verſus incurvis.

Ferber 3 Brieſe p. 50.

γ) Spatum (cordatum) priſmatibus hexaëdris pyramide hexaëdra terminatis, media ſui parte inverſe ſibi oppoſitis.

Ferber 3 Brieſe p. 50.

Habitat in Hercyniæ & Angliæ (Derby & Cumbriæ) *fodinis, album vel flaveſcens, pyramide terminali interdum altera triedra aucta.*

Hyodon. 16. Sp. pyramide duplici hexaëdra. Fig. 31.

Syſt. nat. XII. 3. *p.* 92. *n.* 13. Natrum lapidoſum marmoreo-ſpatoſum obliquum dodecaëdrum, pyramide hexaëdra.

Amoen. ac. I. *p.* 480. *n.* 22. Cryſtallus ſubnitriformis ſpatoſa acaulis, pyramidibus æqualibus.

Muſ. Teſſin. 26. *n.* I. *t.* 2. *f.* 7. & 28. *n.* 5. Nitrum irregulare ſpatoſum acaule, pyramidibus trigonis, lateribus rhombeis carinatis & Nitrum ſpatoſum acaule utrinque pyramidatum, pyramide ſuperiore ſubulata.

Wall. min. 58. *n.* 3. Spatum cryſtalliſatum ſexangulare.

Waller. ſyſt. miner. I. *p.* 141. *n.* 6. c. Spathum cryſtalliſatum hexangulare pyramidale duplicatum.

Cronſt. miner. §. 11. I. b. I. Cryſtalli ſpatoſi pyramidales diſtincti.

β) pyramidibus cavis inanibus.

γ) pyramide utraque ad apicem, altera triedra aucta.

δ) marginibus pyramidum obtuſis.

ε) pyramide alterutra longiori.

Amoen acad. I. *p.* 477. *t.* 16. *f.* 9. 10. *Muſ. Teſſin.* 28. *n.* 5. Cryſtallus nitriformis ſpatoſa acaulis, pyramide ſuperiore ſubulata.

ζ) cryſtallis in faſciculos aggregatis.

Amoen. acad. I. *t.* 16. *f.* 11. Cryſtallus nitriformis ſpatoſa acaulis aggregata faſciculata decumbens.

Habitat in Angliæ (*potiſſimum* Derby,) Sueciæ (*prope* Dannemora & Sahlberg,) Hercyniæ, Salzburgi, Hungariæ *fodinis*, *frequentius album quam flaveſcens*, *nunc pellucidum nunc opacum*, *cryſtallis ſæpe exilibus rarius transverſim ſulcatis*, *interdum in ſeries ordinatis aut in arbuſculas aggregatis.*

ſexangulare. 17. Sp. pyramide hexaëdra ſimplici.

Waller. ſyſt. miner. I. *p.* 141. *n.* 6. b. Spatum cryſtalliſatum hexangulare pyramidale.

β) Spatum pyramide ad apicem altera triedra aucta.

γ) Spatum cryſtallis alia corpora aculeorum ad inſtar obſidentibus.

Waller. ſyſt. miner. I. *p.* 142. *n.* 6. d. Spatum cryſtalliſatum hexangulare pyramidale, ſuperſicie aculcata

Habitat in Sueciæ (*prope* Dannemora,) Hercyniæ, Thuringiæ, Saxoniæ, Hungariæ *fodinis*, *cryſtallis nunc majoribus nunc minoribus*, *nunc latioribus nunc anguſtioribus*, *interdum capillaribus*, *rarius inverſis*, *nonunquam ſub angulo recto ſe ſecantibus*, *faſciculatim ſtellatim in bacilli mergetis*, *arbuſculæ*, *pyramidis hexaëdræ duplicis formam aggregatis.*

pentaëdrum. 18. Sp. pyramide pentaëdra ſimplici.

v. Born ind. foſſ. I. *p.* 6. Spatum calcarium cryſtalliſatum pellucidum album, cryſtallis pyramidatis pentagonis aggregatis.

Habitat in Hercynia, *album*, *pellucidum*, *aggregatum.*

pentagonum. 19. Sp. pyramide pentaëdra duplici.

v. Born. ind. foſſ. I. *p.* 6. 7.

Habitat in Hungaria & Comitatu Tyrolenſi, *nunc opacum nunc pellucidum*, *utplurimum album*, *rarius auroræ colore conſpicuum*, *cryſtallis non raro inanibus faciebus inæqualibus.*

pyramidale. 20. Sp. pyramide triedra duplici.

v. Born ind. foſſ. I. *p.* 5. 6. 2. *p.* 78.

β) Spatum baſeos communis angulis truncatis.

Karſten Lesk. Mineralkab. I. *p.* 258.

γ) Spatum cryſtallis inanibus.

Karſten Lesk. Mineralkab. I. *p.* 262.

Habitat in Scotiæ, Angliæ, Hercyniæ, Magdeburgi, Saxoniæ, Tyrolis, Sileſiæ, Hungariæ *fodinis*, *nunc opacum nunc pellucidum*, *frequentius album quam*

cinereum

cinereum aut alius coloris, pyramide utraque vel alterutra interdum elongata & acuta, rarius diagonaliter ſtriata, cryſtallis utplurimum minutis aut in ſeries, cellulas roſæ, globi, granorum ſpeciem digeſtis.

trigonum. 21. Sp. pyramide triedra ſimplici. *Fig.* 37.

Syſt. nat. XII. 3. *p.* 92. *n.* 12. Nitrum (urinoſum) lapidoſum marmoreo-ſpatoſum erectum, pyramide triedra.

Wall. ſ. ſt. min. 1. *p.* 142. *n.* 6. 9. Spatum cryſtalliſatum triangulare.

β) cryſtallis inanibus.

γ) pyramidis baſeos angulis truncatis.

δ) pyramidis apice excavato.

ε) pyramide ad apicem altera adhuc aucta.

ζ) cryſtallis imbricatim aggregatis.

Cryſtallus ſubnitriformis ſpatoſa aggregata trifariam imbricata. *Amoen. acad.* 1. *p.* 478. *t.* 16. *f.* 14.

Nitrum ſpatoſum acaule, pyramide triquetra acute imbricata *Muſ. Teſ.* 28. *n.* 6.

Habitat in Sueciæ (Sahlberg,) Angliæ (Derby,) Hercyniæ, Saxoniæ, Luſatiæ, Stiriæ, Vicentiæ, Hungariæ, Temeſiæ *fodinis, nunc opacum, nunc pellucidum, utplurimum album, rarius fuſceſcens aut flaveſcens, rariſſime olivaceum, cryſtallis frequentius minutis, nunc latioribus, nunc anguſtioribus, interdum capillaribus, nunc longioribus, nunc brevioribus, aliquando depreſſis, ſparſim vel imbricatim aggregatis, vel in renis aut granorum ſpeciem congeſtis.*

lenticulare. 22. Sp. cryſtallis lentis formam præ ſe ferentibus.

Muſ. Teſſin. 28. *t.* 2. *f.* 1. Natrum lenticulare acaulon.

Habitat in Hercyniæ, Thuringiæ, Saxoniæ, Bohemiæ *fodinis, utplurimum album, ſæpe pellucidum aut nucleo lacteo per corticem diaphanum tranſlucente conſpicuum, cryſtallis interdum cavis, frequenter hexaëdris, interdum ephippii in modum incurvis, ſparſim in cellulas roſæ aut granorum ſphæricorum formam aggregatis.*

granatinum. 23. Sp. dodecaëdrum ex pentagonis conflatum.

Gerh. Mineralſ. p. 49. *n.* 12. Porus granaticus.

Habitat in Angliæ, Hercyniæ, Saxoniæ, Sileſiæ, Carinthiæ, Hungariæ, Temeſiæ *fodinis, utplurimum album, rarius flaveſcens, an mera cubici aut dodecaëdri varietas?*

chryſolithinum. 24. Sp. viride, priſmatibus hexaëdris utrinque pyramide hexaëdra terminatis. *Werner bergm. Journ.* 1790. 7. *p.* 74. &c.

Romé de l'Isle cryſtallogr. ed. 2. *vol.* 2. *p.* 272. Chryſolithe.

Habitat in Hiſpania *prope* Carboneira, *ſubdurum, cum aqua forti parum effervescens in fragmenta indeterminata diſſiliens, prunis injectum non lucens, transverſim fractum texturam conchaceam referens, ponderis ſpecifici* 3098 : 1000, *cryſtallis minutis ſolitariis intus interdum cavis. An hujus generis?*

11. SCHISTOSPATUM. Ex terra calcaria, plurimo aëre fixo & aqua conſtans, cum acidis efferveſcens.

Lamelloſum, lamellis incurvis, paraſiticum molle in fragmenta indeterminata diſſiliens, leviuſculum, attacta pinguiuſculum.

In igne crepitans.

fiſſile. 1. Sch. album.

Syſt. nat. I. *p.* 153. *n.* 1. XII. 3. *p.* 48. *n.* 3. Spatum ſolubile diaphanum fiſſile album.

Wall. min. 59. & *ſyſt. miner.* 1. *p.* 138. *n.* 2. Spatum lamelloſum molle.

Carth. min. 12. Spatum informe molle diaphanum, lamellis minutiſſimis.

Cronſt. min. §. 10. 2. Spatum lamelloſum.

β) Schiſtoſpatum lamellis undulatis.

Syſt. nat. XII. 3. *p.* 49. *n.* 4. *It. wgoth.* 131. Spatum (undatum) ſolubile lamelloſum undulatum album.

Habitat rarius in Norwegiæ (*prope* Konigsberg & Eger) & Saxoniæ (*prope* Schwarzenberg) *fodinis*, *β*) *in ſabulo* Daliæ Suecicæ *prope* Kopmanneficell, *fragile, formæ communis, ex cineraſcente aut ruſeſcente album, nunc opacum, nunc ſubopacum, rarius diaphanum intus nitens, nitore externo pinguedinem referens,*

12. INOLITHUS. Ex terra calcaria aëre fixo & pauca aqua conſtans, aqua forti totus cum effervescentia ſolvendus.

Fibroſus, paraſiticus, mollis, leviuſculus, in fragmenta indeterminata acutangula diſſiliens.

filamentoſus. 1. I. fibris parallelis. *Gerh. Mineralſ. p.* 52.

Syſt. nat. XII. 3. *p.* 47. *n.* 2. Stirium (marmoreum) diaphanum ſolubile fibroſum.

It. ſcan. 121. Alabaſtrites.

Waller. ſyſt. miner. 1. *p.* 127. *n.* 6. a. Calcareus figuratus filamentoſus.

β) *Syſt. nat.* XII. 3. *p.* 184. *n.* 8. *Muſ. Teſſin.* 76. *n.* 5. Stalactites (ſtiriaceus) fibris transverſis.

γ) *Vandell. diſſ.* 16. Tophus alter.

Habitat in Ruſſia, Dalecarlia, Scania, Polonia, Marchia, Saxonia, Bohemia, γ) *in* thermis Aponi, *rarius pellucidus quam diaphanus aut opacus, fibris nunc rectis, nunc incurvis, nunc longioribus, nunc brevioribus, nunc anguſtioribus, nunc latioribus ut radiosſore dixeris, albus, interdum flaveſcens aut fuſceſcens, rarius cæruleus, nonnunquam alia corpora quaſi cortice obducens.*

acerosus. 2. I. fibris faſciculatis. *Gerh. Mineralſ. p.* 53. *n.* 3.

Habitat in Hungariæ (Schemniz) *fodinis, albus, interdum flaveſcens, luteus, ex luteo fuſcus vel carneus.*

ſtellaris. 3. I. fibris ſtellatim divergentibus, formæ communis.

Gerh. Mineralſ. p. 52. *n.* 2. Inolithus radians.

Habitat in Marchiæ *calcariis montibus*, Bohemiæ & *frequens in* Hungariæ *fodinis, albus, interdum flaveſcens aut cinereus.*

Flos ferri. 4. I. ramuloſus, fibris ſtellatim divergentibus.

Syſt. nat. I. *p.* 191. *n.* 3. XII. 3. *p.* 183. *n.* 4. *Scop. hydrarg.* Stalactites marmoreus ramuloſus.

Carth. min 71. Ferrum mineraliſatum ramoſum album, ramis erectis acuminatis glabris nitentibus.

Weller. min. 244. *n.* 1. Minera ferri alba germinans.
Waller. ſyſt. min. 2. *p.* 383. *n.* 9. d. Stalagmites coralloideus.
Habitat quamvis ferri expers aut certe inops, ferri mineris utplurimum inſidens, potiſſimum in ferrifodinis Heidenheimenſibus Wirtembergiæ, Eiſenerzenſibus Stiriæ, Huttenbergenſibus Carinthiæ, *etiam in* Schemnizenſibus Hungariæ, *ut plurimum niveus, interdum flaveſcens.*

13. STALACTITES. Ex terra calcaria, aëre fixo & aqua conflatus, ex aqua in aëre præcipitatus.

Diaphanus, intus inconſpicuus, in fragmenta indeterminata diſſiliens, in cruſtas concentricas ſecedens.

In ædificiis inprimis ſubterraneis & antris potiſſimum calcariorum montium obvius.

Spatoſus. 1. St. pendulus intus lamelloſus diaphanus.
Syſt. nat. I. *p.* 191. *n.* 5. XII. 3. *p.* 184. *n.* 7. *Muſ. Teſſin.* 78. *n.* 6. Stalactites marmorea ſpatoſus ſolidus.
Cronſt. m. §. 12. 2. Stalactites ſolidus, particulis ſpatoſis.
Carth. min. 13. Spatum molle ex aqua deſtillante generatum.
Habitat in antro Baumanni Hercyniæ, Nebelloch Wirtembergiæ, Adrianopoli, *prope* Rhotomagum *in* Normannia, &c. *varias formas indutus.*

Stiria. 2. St. pendulus concentrico-cruſtoſus.
Wall. min. 329. Porus aquæ ſtillatitius in aëre ſub ſtillicidio concretus pendulus.
Wall. ſyſt. min. 2 *p.* 386. *n.* 8. Stalactites calcareus ſtillatitius ſub ſtillicidio concretus pendulus.
α) cylindricus.
a) inanis ſ. fiſtuloſus.
b) ſolidus.

a) Priapolithus. *Marcorelle act. Pariſ. peregr.* 7. *n.* 4. Calites, Phalloides. *Wall. ſyſt. min.* 2. *p.* 601. *n.* 1. f.
b) Stalactites ſungiformis. *Wall. ſyſt. min.* 2 *p.* 388 *n.* 9 c.
β) conicus.
a) inanis ſ. ſiſtuloſus.
Syſt. nat. XII. 3. *p.* 190. *n.* 18 Tophus(turbinatus)calcarius turbinatus multicorticatus interne imbricatus.
Cronſt. miner. §. 12. d. Stalactites conis concretis excavatis.
b) apice perforatus.
Syſt. nat. I. *p.* 191. *n.* 2. XII. 3. *p.* 183. *n.* 2. *Muſ. Teſſin.* 76. *n.* 2. Stalactites (ſtillatitius) cretaceus tunicato-cruſtaceus, apice perforato natroſo.
Cronſt. min. §. 12. b. Stalactites coniformis perforatus.
c) ſolidus.
γ) alius nunc magis teretis nunc magis compreſſæ formæ, referens v. g. radices.
a) zedoariæ.
b) ireos florentinæ.
c) zingiberis, Zingiberites.
Habitat in ædificiorum *partibus & generibus ex lapidibus calcariis aut cum cæmento calcario exſtructis, in antris montium calcariorum in quæ aqua ſtillat, etiam in* fodinis *ſtratis calcareis propinquis* e. gr. *prope* Helſingburg Scaniæ, *prope* Oſterwalde Saxoniæ *inferioris*, *in antro* Baumanni, *prope* Eula, Branick & Koſors Bohemiæ, *ad ſalinas* Auſtriæ *ſuperioris*, *prope* Rodnau Tranſilvaniæ, *in* Tyroli, *prope* Stuttgardiam, & *in antro* Nebelloch Wirtembergiæ, *prope* Befort Sundgaviæ, *&c. utplurimum albus, interdum griſeus, fuſcus aut flaveſcens, intus inconſpicuus.*

Stalactites. 3. St. ſeſſilis faciebus ſphæricis conſpicuus.
Wall. ſyſt. min. 2. *p.* 387. *n.* 9. Stalactites calcareus poſt ſtillicidium, figura globoſa, botryitica vel alia concretas.
α) globuloſus.
a) globulis ſejunctis.
b) globulis geminis conjunctis Orchiti. *Wall. ſyſt. miner.* 2. *p.* 601. *n.* 1. g.
β) noduloſi.
Bellaria lapidea, Confetto di Tivoli.
γ) reniformes.
δ) mammillares.
ε) Carpolitni *multi.*

ζ) Stalactitæ braſſicam cauliflorum referentes.
η) Chiriti.
ι) Sceliti.

Habitat in fundo antrorum & fodinarum *in* montibus *præſertim* calcariis exſculptarum, *α) frequens prope* Turrick *ad* montes Carpathicos, *β) frequens circa* Tiburtium.

ſolidus. 4. St. ſeſſilis ſolidus.

Syſt. nat. I. *p.* 191. XII. 3. *p.* 183. *n.* 3. *Muſ. Teſſin.* 76. *n.* 4. *Schreb. lith.* 94.

Cronſt. min. §. 12. c. Stalactites figura incerta.

Daubent. act. Pariſ. 1754. Albâtre calcaire.

Habitat Adrianopoli *in* antro Baumanni *aliisque ejus generis*, *in* Saxonia (*prope* Annaberg.) Bohemia, Stiria, Wirtembergia *diaphanus*, *polituram admittens quaſi pinguiuſculam*, *lacteus*, *venis*, *ſtriis*, *maculis rubris*, *roſeis*, *flavis*, *fuſcis*, *cinereis varius*, *cinereus*, *ruber flavus*, *fuſcus*, *raro cæruleus.*

14. PISOLITHUS. Ex terra calcarea, pauciſſima arena & ferri calce, aëre fixo & aqua conſtans.

Molle, ſubopacum, intus inconſpicuum, in fragmenta indeterminata diſſiliens, in grana ſphærica ſecedens.

Texturæ concentrice lamelloſæ.

Prope thermas obvius.

carolinus. 1. Pisolithus.

Syſt. nat. I. *p.* 189. *n.* 2. Tophus calcareus thermarum.

Syſt. nat. XII. 3. *p.* 189. *n.* 14. Tophus (Oolithus) calcarius globulis piſiformibus cruſtatis congeſtus.

Cronſt. min. §. 12. 1. a. Stalactites teſtaceus globoſus.

Worm. muſ. 52. Piſa carolina.

Waller. ſyſt. min. 2. *p.* 384. *n.* 7. a. Oolithus majoribus globulis, piſi magnitudine.

Habitat prope thermas Carolinas Bohemiæ, *in* Sileſia, Hungaria, *amplum in* Bohemia *ſtratum conſtituens*, *ex flaveſcente albus ut tamen aliquando in fuſcum inclinet*, *rarius reniformis*, *ſingulis globulis incluſo nuclei loco arenæ granulo.*

15. MARMOR. Ex terra calcaria, aëre fixo & aqua conflatum.

Duriuſculum, macrum, formæ communis leviuſculum, integros montes vel magnam eorum portionem conſtituens aut vagum.

Igne in calcem vivum abiens, acidis cum efferveſcentia magnam partem ſolubile.

Hammites. Rogenſtein. 1. M. opacum inconſpicuum compactum in granula rotunda ex minoribus globulis aggregata ſecedens.

Syſt. nat. I. *p.* 151. *n.* 2. XII. 3. *p.* 43. *n.* 12. *Schreb. lith.* 17. Marmor granis globoſis cruſtatis confertiſſimis.

It. gotl. 266. Oolithus.

Vogel min. 256. Piſolithus.

Wall. ſyſt. miner. 2. *p.* 383. *n.* 7. Stalactites calcareus globularis minoribus globulis cruſtaceis ſine baſi concretus.

β) Oolithus Phacitas, globulis magnitudine ovorum piſcium.

γ) Cenchrites, globulis magnitudine ſeminum milii.

δ) Meconites, globulis magnitudine ſemina papaveris æquantibus.

Habitat in montibus ſtratariis Gothlandiæ, Saxoniæ, Thuringiæ, Ducatus Brunsvicenſis, Galliæ, Helvetiæ, *ampla ut plurimum & in eodem monte plura ſtrata conſtituens, obſcure cinereum aut fuſcum, aut ex utroque colore miſtum, rarius ſubopacum, fragmentis in quæ diſſilit, ſetis obtuſangulis, granis in quæ ſecedit nunc majoribus nunc minoribus, rarius animalium partium veſtigia continens.*

granulare. 2. M. ſubopacum lamelloſum intus micans duriuſculum in grana ſponte ſecedens polituram non admittens.

Syſt. nat. I. *p.* 152. *n.* 6. XII. 3. *p.* 41. *n.* 6. Marmor (rude) particulis granulatis micantibus.

Wall. min. 39. Calcareus particulis ſcintillantibus.

Wall. ſyſt. miner. 1. *p.* 122. *n.* 2. Calcareus granularis denſus, particulis micantibus immixtis.

Cronſt. min. §. 8. Lapis calcareus, particulis granulatis.

Carth. min. 22. Calcarius rudis micans nitorem aſſumens.

Wolt. min. 19. Calcarius lapis amorphus rudis dictus polituram non admittens.

Cart. foſſ. 152. Saxum calcareum ſcintillans albidum.

Gerh. Mineralſ. p. 40. *n.* 4. Marmor Peperites.

Habitat in montibus ſimplicibus, antiquioribus, *quorum partem ſæpe potiorem aut ampliſſima ſtrata conſtituit, nunquam vivorum corporum veſtigia includens, granis nunc majoribus, nunc minoribus album, cinereumque, atrum, fuſcum, rubrum flaveſcens aut variegatum, lamellis rectis, ſolo argilloſo emendando, ædificiis exſtruendis, viis plateisque ſternendis; calci urendæ, quam tamen rarius bonam largitur, & fundendis ferri mineris inſerviens.*

micans. 3. M. diaphanum album lamelloſum intus micans duriuſculum in grana ſubtilia ſponte ſecedens polituram admittens.

Syſt. nat. XII. 3. *p.* 42. *n.* 7. Marmor particulis ſpatoſo-ſquamoſis.

Wall. miner. 40. Calcareus particulis diſperſis.

Waller. ſyſt. miner. 1. *p.* 124. *n.* 4. a. & *p.* 120. *n.* 8. a. Calcareus particulis ſpathoſis diſperſis planis irregulariter diſpoſitis nitentibus & marmor unicolor album.

Cronſt. miner. §. 9. 2. 3. Lapis calcareus, particulis ſquamoſis ſ. ſpathoſis.

β) Marmor (tardum) particulis ſubimpalpabilibus, album diaphanum. *Syſt. nat.* XII. 3. *p.* 41. *n.* 5.

γ) Marmor (decuſſatum) particulis oblongis, depreſſis decuſſato-ſparſis. *Syſt. nat.* XII. 3. *p.* 42. *n.* 8.

Syſt. nat. I. *p.* 152. *n.* 7. Marmor ſolubile, particulis micantibus radiantibus.

δ) Marmor (aceroſum) particulis oblongis aceroſis longitudinaliter ſparſis. *Syſt. nat.* XII. 3. *p.* 42. *n.* 9.

ε) Pietra elaſtica. *Ferber Brief. a. Welſchland. p.* 110.

Habitat in montibus ſimplicibus antiquioribus, *ampliſſima in his ſtrata conſtituens, omni vivorum corporum veſtigio orba in* Finnia, Dalecarlia, Gothia *orientali*, Walsmannia Sueciæ, *in* Saxonia *prope* Crotendorf, Neudorf, Ehrenfriedensdorf. *in* Haſſia *prope* Hochſtetten, *in* Franconia *prope* Wonſiedel, *in* Bohemiæ *ferrifodinis* Presnizenſibus, *in* Temeſiæ *cuprifodinis*, *in* Tranſilvania, Carniolia, Auſtria *prope* Traunſtein, *in* Tyroli, *in* Helvetia, *in montibus* Pyrenæis *prope* Loubie, *in* Hetruria *prope* Seravezza & Montagnucha, *olim prope* Carrara, & *in inſulis* Paros

atque Antiparos, *rarius in uſtrinis adhibitum, frequentius ab antiquiſſimis jam temporibus ſtatuis & elegantioribus ædificiorum partibus, artis ope interdum coloribus variis tinctum pictumque, non raro quartzi grana immixta ſibi habens, ut non efferveſcet modo tardius, ſed ad chalybem ſcintillet.*

ſquamoſum 4. M. granulare denſo intime miſtum.

Cronſt. min. §. 9. 1. Lapis calcareus particulis ſquamoſis rudioribus.

Noſe orograph. Br. Sieb. 2. *p.* 4. ſchuppichte Kalkſtein.

Habitat Garpenbergæ & *in* Finnia Sueciæ, *album vel ex ruſeſcente flavum, montium ſimplicium partem ſæpe præcipuam conſtituens, corporum vivorum veſtigiis privum, calcem præbens non optimæ notæ.*

poroſum. 5. M. poris pertuſum inconſpicuum opacum polituram non admittens.

α) Marmor (Filtrum) poris pertuſum aquam diſtillans. *Gerh. Mineralſ. p.* 40. *n.* 5.

Habitat in Marchiæ *lapidicinis* Rüdersdorfienſibus.

β) Marmor ſpongioſum. *Eſſai de miner. des monts Pyr.*

Habitat in montibus Pyrenæis *ad montem* Loarde & *in terra* Bearn.

γ) Marmor exeſum *Born ind. foſſ.* 2. *p.* 77.

Habitat prope Idriam Carnioliæ.

δ) Marmor cellulofum. *Born ind. foſſ.* 2. *p.* 77.

Habitat in Alſatia & montibus Giganteis Bohemiæ. *Pori ex pyrita olim innidulente, fatiſcente atque eluto.*

margodes. 6. M. denſum inconſpicuum ſubopacum polituram non admittens, fragmentis convexis.

Syſt. nat. XII. 3. *p.* 41. *n.* 4. Marmor (fiſſile) particulis ſubimpalpabilibus fiſſile albidum.

Waller. ſyſt. miner. 1. *p.* 353. *n.* 3. Margodes facie marmorea particulis ſubtiliſſimis, polituram admittens dendriticus.

Gronov. ſupell. 99. 102. Schiſtus pallido albus ſ. Marmor pappenheimenſe.

Coſt. foſſ. 169. Schiſtus calcareus flavo-albidus.

Habitat in montibus ſtratariis, *frequens potiſſimum in* circulorum Germaniæ Bavarici, Franconici & Suecici confluxu, *ex flaveſcente vel ruſeſcente albidum, paucula argilla inquinatum, crebro ſpati venis diaphanis exaratum & arbuſcularum imaginibus pictum, non raro piſcium & cancrorum aquas dulces inhabi-*

tantium, rarius teſtaceorum veſtigiis impreſſis conde-coratum, ampla ſtrata in tabulas findenda conſtituens.

ſtratarium. 7. M. argilla inquinatum humeſcens in igne crepitans ex ſtratis horizontalibus conflatum.

Syſt. nat. I. *p.* 151. *n.* 4. XII. 3. *p.* 42. *n.* 10. *Muſ. Teſ.* 12. Marmor particulis argilloſis, fragmentis horizontalibus.

Coſt. foſſil. 155. Saxum rubrum ſplendidum duriſſimum.

Gerh. Mineralſ. p. 40 *n.* 3. Marmor-zonatum.

It. œl. 51. *it. ſcan.* 107. Alwarſten.

It. wogoth. 21. c. Tælgſten.

Habitat in Œlandia *rupeſtri*, Scania, Kinnekulle Sueciæ *monte, rimis horizontalibus & perpendicularibus fiſſum, petrefactis ſcatens, ſtratis ſuperioribus inferiora duritie ſuperantibus.*

florentinum. 8. M. argilla inquinatum opacum denſum polituram admittens pictura rudera ædificiorum referens.

Syſt. nat. XII. 3. *p.* 41. *n.* 3. Marmor particulis impalpabilibus opacum compactum poliendum flavicans.

Waller. ſyſt. min. I. *p.* 133. *n.* 10. a. Marmor pictorium regiones vel urbes deſolatas repræſentans.

Coſt. foſſ. 183. *n.* 18. Schiſtus florentinus variegatus, regiones deſolatas & ædificiorum rudem affabre præ ſe ferens.

Calc. muſ. 419. *Linck. oryct.* 14. *Lang lap. fig.* 33. *Baier oryct.* 44. *Myl. ſaxon.* I. *p.* 17. *Scheuchz. muſ.* 98. 248. Marmor florentinum.

Imper. nat. l. 24. *c.* 24. Marmor de monte Sinai.

Habitat in Italia *media, monte* Viennenſi Leopoldi, *monte* Sinai, *ex flaveſcente cinereum, picturis utplurimum fuſcis.*

nobile. 9. M. ſubopacum denſum textura feſtucas referens polituram egregiam admittens coloris altioris.

Syſt. nat. I. *p.* 152. *n.* 8. XII. 3. *p.* 40. *n.* 2. *Muſ. Teſ.* 10. *n.* 1. Marmor ſolubile, particulis impalpabilibus raſilibus, & Marmor particulis ſubimpalpabilibus opacum compactum poliendum.

Wall. miner. 45. *ſyſt. miner.* I. *p.* 129. *ſqq. n.* 8. 9. 11. *Cronſt. min.* §. 7. Marmor.

Wolt. min. 19. Marmor polituram admittens.

Carth. miner. 23. Calcareus ſubtilis nitorem aſſumens eleganter coloratus.

unicolor. α) M. colore unico æquabili. *Wall. ſyſt. miner.* 1. *p.* 129. *n.* 8.
a) *rufum*. Numidium.
b) *carneum*.
c) *rubrum*.
d) *cinnamomeum*. Marmo canello.
e) *flavum*. Phengites.
f) *pallidum*. Polembino antiquo.
g) *cæſium*. Bardglio. Venetum. *Coſt. foſſ.* p. 193. *n.* 10.
h) *cæruleum*. Chium & Narbonenſe.
i) *viride*. Verdello. *Coſt. foſſ. p.* 199. *n.* 13.
k) *lividum*. Pardalium.
β) variegatum. *Waller. min. ſyſt.* 1. *p.* 131. *n.* 9.
a) *faſciatum*.
b) *ſtriatum*.
c) *lineatum*, Marmo ſeritto.
d) *venoſum*.
e) *colore altero ſenſim in alterum diffluente*, Marmo miſchio.
f) *maculoſum*, Brocatello.
g) *ocellatum* e. g. Occhio di pavone.
h) *punctatum*.
i) *irroratum*, Marmo polveroſo.
a) *album*, africanum.
b) *nigrum*, canarienſe.
c) *luteum*, Porta ſanta.
d) *purpuraſcens*, *Lesbium*.
e) *viride*, Lacedæmonicum. *Coſt. foſſ. p.* 199 *n.* 7.

Habitat ineffabili colorum & picturarum varietate in montibus ſtratariis, potiorem montium rupiumque calcariarum recentiorum conſtituens, petrefactis potiſſimum marinis, & imprimis teſtaceis refertiſſimum, ut ex his natum eſſe ſole clarius pateat, uſtum, calcem largiens eximium, alias a multis retro ſeculis ſculptoriæ artis princeps materia, & nobilioribus ædium domumque partibus inſerviens.

Vulgatum. 10. M. ſubopacum denſum textura feſtucas referens, coloris vilioris.

Waller ſyſt. min. 1. *p.* 119. *n.* 1. Calcareus ſolidus particulis impalpabilibus & indiſtinctis.

Habitat cum nobili vix niſi colorum minori varietate & elegantia diſtinctum & ejusdem originis, calci vivæ urendæ potiſſimum inſerviens.

fiſſile. 11. M. opacum denſum ex ſtratis tenuioribus compoſitum. *Syſt. nat.* XII. 3. *p.* 39. *n.* 12. Schiſtus (effervеſcens) ſcriptura cana, fuſcus effervеſcens.
Vogel miner. p. 150. *n.* 6. Schiſtus calcareus.
Pott. Lithogaogn. 1. *p.* 44. Fiſſilis calcareus.
Habitat in Suecia, Anglia, Hiſpaniæ *monte* Calpi *prope* Gibraltar. *nunc unicolor griſeum aut fuſcum, nunc bicolor. ſtratis alternis albis, ruſeſcentibus, fuſcis, griſeis, nigris aut vireſcentibus.*

ſtrumoſum. 12. M. argilla inquinatum in ſphæras cavas intus cryſtallinas ſecedens.
Syſt. nat. I *p.* 151. *n.* 3. *Muſ. Teſſin.* 12. Marmor ſolubile, fragmentis ſubrotundis.
Syſt. nat. XII. 3. *p.* 43. *n.* 11. Marmor particulis argilloſis, ætitis cryſtallinis ſparſis.
It. wgoth. 21. 28. Görſten.
Habitat in Sueciæ *monte* Kinckulle *pluvio tempore humeſcens. An diſtincta hujus generis ſpecies?*

16. SUILLUS. Ex terra calcaria, aëre fixo bitumine & pauca aqua conflatus.
Tritus fœtorem urinoſum ſpirans.
Acidis fere totus cum effervеſcentia ſolubilis.
Igne in calcem vivam egregiam abiens.

marmoreus. 1. S. opacus denſus ater polituram egregiam admittens, fragmentis ſubconvexis.
Syſt. nat. I. *p.* 168. *n.* 7. XII. 3. *p.* 111. *n.* 9. *α Muſ. Teſſ.* 42. *n.* 4. Bitumen marmoreum fœtidum compactum.
Syſt. nat. XII. 3. *p.* 40. *n.* 2. *β.* Marmor nobile nigrum.
Waller. ſyſt. miner. 1. *p.* 130. *n.* 8. b. Marmor unicolor nigrum.
Cronſt. miner. §. 23. A. Terra calcarea phlogiſto ſimplici mixta ſolida, particulis impalpabilibus.
Vog. min. p. 107. Lapis ſuillus.
Coſt. foſſil. 186. Marmor nigreſcens.
Habitat in montibus ſtratariis. e. g. Sueciæ, Belgii, Thuringiæ, Franconiæ, Bohemiæ, Sileſiæ, *petreſactis corporibus ſæpe refertiſſimus, intus inconſpicuus,*

in fragmenta indeterminata diſſiliens, pavimentis, monumentis ſepulcralibus aliis artis ſculptoriæ operibus inſerviens, egregium calcem præbens.

ſchiſtoſus. 2. S. opacus denſus fiſſilis, fragmentis planis.

Syſt. nat. XII. 3. *p.* 40. *n.* 1. Marmor (ſchiſtoſum) particulis impalpabilibus, nigrum, ſcriptura alba.

It. ſcan. 121. 143. 148. 156. Fliſſten.

Gerh. Mineralſ. p. 52. Dyſodes (fiſſilis) textura terrea granulata.

Gron. Suppl. 10. *n.* 7. 8. Schiſtus fuſcus fragilis, Lapis folinus qui ferro attritus urinam folium redolet.

Coſt. foſſ. 172. Schiſtus fuſco cinereus Lapis ſuillus dictus.

Habitat e. g. *in* Sueciæ, Sileſiæ, montibus ſtratariis, *lithanthracum frequens comes, filicum, aliarumque plantarum potiſſimum aquaticarum, etiam piſcium imaginibus impreſſis non raro ornatus, nunc niger, nunc ex flaveſcente fuſcus aut cinereus, nunc ſabellinus.*

lamelloſus. 3. S. textura lamelloſa.

Syſt. nat. XII. 3. *p.* 111. *n.* 9. *β. γ. δ.*

Gerh. Mineralſ. p. 54. *n.* 3. Dyſodes (ſpathoſus) textura lamelloſa.

Cronſt. §. 23. B. C. D.

Waller. ſyſt. min. 1. *p.* 144. *n.* 7. a. Spatum frictione fœtidum micans.

Habitat in Sueciæ, Thuringiæ *montibus calcariis, paraſiticum, atrum vel fuſcum, rarius ochroleucum, lamellis nunc majoribus, nunc minoribus.*

cryſtallinus. 4. S. pyramidibus hexaëdris elongatis.

Syſt. nat. XII. 3. *p.* 111. *n.* 9. E. *It. wgoth.* 21. Bitumen ſuillum cryſtallinum.

Syſt. nat. XII. 3. *p.* 86. *n.* 8. Nitrum (ſuillum) lapidoſum ſpatoſum ſedecaëdrum fœtidum.

Act. Stockh. 1759. *p.* 26 Lapis ſuillus.

Wall. miner. 59. *n.* 1. *ſyſt. min.* 1. *p.* 147. *n.* 7. b. Lapis ſuillus priſmaticus.

β) cryſtallis divergentibus.

Wall. ſyſt. min. 1. *p.* 144. *n.* 7. c. Lapis ſuillus radiatus.

γ) cryſtallis in ſphæram aggregatis.

Waller. ſyſt. min. 1. *p.* 144. *n.* 7. d. Lapis ſuillus ſphæricus.

Cronſt. min. §. 22. 1. E.

Habitat in Sueciæ *terris*, Weſtrogothia, Œlandia, *in* Iageia.

17. TREMOLITES. Ex terra calcaria, plurima terra ſilicea, pauca magneſia, aqua & aëre fixo conflatus.

Radiatus, duriuſculus, nitens, fragilis, acu attritus in tenebris lucem ſpargens.

Aqua forti cum aliqua efferveſcentia ex parte ſolubilis.

Hoepfneri. 1. TREMOLITES. *Ferber Brief. mineralog. Innhalts, &c. p. 22.*

Habitat in valle Tremola *ad montem* S. Gotthardi Helvetiæ. *Utrum diſtincti generis? An cum ſtellari potius conjungendus? Aut zeolitho adſcribendus?*

18. STELLARIS. Ex terra calcaria, pauciori ſilicea, pauca aqua & ferri calce compoſitus.

Stellatim fibroſus, ſericei nitoris mollis, paraſiticus.

Igne facile cum ebullitione fundendus.

Aqua forti cum efferveſcentia ex parte ſolubilis.

Tranſilvaniæ. 1. STELLARIS. *Fichtel & Bindheim Schrift. berl. Nat. 3. p. 442. &c.*

Habitat prope Unterſchebeſch Tranſilvaniæ *in marmore micante duriori albus aut thalaſſinus. An zeolithi ſpecies?*

19. HUMUS. Ex terra calcaria, pauciori ſilicea inflammabili, aëre fixo & ferri calce compoſita.

Ex corporibus animalibus & vegetabilibus putredine diſſolutis ſuperſtes.

Levis, friabilis, aquam imbibens, ſed non retinens, macra, ſcabra, humida, coloris obſcurioris.

Cum aqua forti effervefcens, igne leniori in cinereo, fortiori in vitrum ſpumidum abiens.

animalis. 1. H. impalpabilis aquam avidiſſime imbibens, rudis vix, uſta ſatis ſenſibiliter cum aqua forti effervefcens.

Syſt. nat. I. *p.* 209. *n.* 8. 9. XII 3. *p.* 212. *n.* 14. Humus animalis impalpabilis.

Wall. min. 7. *n.* 1. *ſyſt. min.* I. *p.* 23. *n.* 8. a. Humus animalis terrificata.

Cronſt. §. 246. Humus diverſorum animalium.

Habitat in cœmiteriis *ex animalibus putrefactis ſuperſtes, alba, vel cinerea, leviſſima, lacuſtri fertilior.*

dædalea. 2. H. fuſca ſubtiliſſima.

Syſt. nat. XII. 3. *p.* 209. *n.* 1. Humus vegetabilis impalpabilis fuſca.

Habitat paſſim & ubivis, *ex fimo animalium potiſſimum nata, adeo ſubtilis, ut cum aqua per pannum & chartam griſeam tranſeat, optimum ideo plantarum plurimarum hortenſium alimentum & ſolum.*

ruralis. 3. H. humectata atra, ſicca cineraſcens.

Syſt. nat. I. *p.* 209. Humus vegetabilis communis.

Syſt. nat. XII. 3. *p.* 209. *n.* 2. Humus vegetabilis perfecte pulveriſata atra.

Wolt. min. 11. Humus nigreſcens hortorum.

Waller. min. 1. Humus atra communis.

Waller. ſyſt. min. I. *p.* 13. *n.* 1. *Cronſt. min.* §. 293. 3. Humus atra.

Carth. miner. 53. Humus pura.

Habitat ubique ex vegetabilibus in ſicco loco ſenſim putrefactis ſuperſtes, plantarum communis matrix hortenſibus fertiliſſimum ſolum præbens.

pauperata. 4. H. aquam cito dimittens ſicca farinoſa.
Syſt nat XII. 3. *n. p.* 209. *n.* 3. Humus vegetabilis ſubfarinoſa.
It. wgoth. 240. Räkjord.
Habitat in ericetis, *plantis utilibus plurimis funeſta & ſiccis potiſſimum annis inviſa agricolis, ſicca enim adeo levis, ut a vento abigatur.*

alpina. 5. H. fuſca particulis majoribus.
Syſt. nat. XII. 3. *p.* 210. *n.* 5. Humus vegetabilis groſſe pulveriſata fuſca.
Habitat in Alpibus *vulgatiſſima, alpinis ſtirpibus egregie conducens, aliis minime.*

effervefcens. 6. H. ab aqua abſorpta diutius retenta intumeſcens.
Syſt. nat. XII. 3. *p.* 210. *n.* 4. Humus vegetabilis aceroſa, ſicco friabilis.
It. wgoth. 240. Humus ſpongioſa.
Habitat paſſim in ſubhumidis, *an ex radicibus in pulverem fatiſcentibus orta? ſerius exſiccanda, horticolis & agricolis inviſa, cum tempore vernali a gelu nocturno æſtuque diurno attollatur, & pullulantes plantas ejiciat atque eradicet, ut pereant.*

Lutum. 7. H. leviſſima non combuſtilis, humida nigra.
Syſt. nat. I. *p.* 209. *n.* 3. XII. 3. *p.* 210. *n.* 7. Humus vegetabilis aceroſa paludum.
Carth. min. 53. Humus limoſa aquatica.
Wolt. miner. 11. Humus atra paluſtris.
Waller. min. 5. Humus vegetabilis lutoſa.
Waller. ſyſt. miner. I. *p.* 19. *n.* 5. Humus aceroſa paluſtris.
Cronſt. min. §. 293. B. 2. Humus lacuſtris.
Habitat in paludibus *ſub aqua, e plantis paluſtribus ſenſim corruptis nata, adeo levis, ut aquæ agitatæ diu inhærent, ſolo arenaceo corrigendo conducens.*

martialis. 8. H. colore friabili tincta.
Waller. ſyſt. miner. I. *p.* 16. *n.* 2. Humus colorata martialis.

Lu...

Ludw. de terr. muſ. Dreſd. p. 164. Humus ochra martiali tincta.

Carth. miner. 53. Humus metallica aut ſemimetallica.

damaſcena. β) Humus ochraceo rufa vegetabilis. *Syſt nat.* XII. 3. *p.* 211. *n.* 10.

Waller. miner. 8. Humus rubra.

tinctoria. γ) Humus vegetabilis atro-tinctoria paludum. *Syſt. nat.* XII. 3. *p.* 211. *n.* 8.

Coſt. foſſil. 89. Ochra nigra argillacea.

Habitat nunc flaveſcens, nunc ex flavo fuſca, nunc rubella, nunc purpurea, colores hos ferri calci debens in Suecia, β) *in* Anglia, Germania, Syria, γ) in Smolandiæ & Scaniæ *paludibus & alnetis, hæc ruſticis ad veſtimenta lanea atro colore imbuenda adhibita.*

picea 9. H. atra exſiccatione conſolideſcens. *Hiſcan.* 194. 256.

Habitat in Scaniæ *interdum agris, proprium colendi modum requirens.*

muriatica. 10. H. fuſca, ſaporis ſalſi.

Syſt. nat. XII. 3. *p.* 205. *n.* 20. Argilla mixta margacea efferveſcens fuſca muriatico-ſalſa.

Cronſt. miner. p. 125. Terra e palæſtina.

Habitat in Deſerto mari rubro *confini*, Ægypto, Syria.

20. MARGA. Ex terra calcaria & argilla utplurimum quoque ferri calce compoſita.

Mollis opaca, formæ communis, intus terrea, lævis, ut cum aqua vulgari agitando miſceri queat, in montibus ſtratariis obvia.

Aqua forti cum efferveſcentia ex parte ſolubilis.

Igne induranda & fortiori in vitrum fundenda.

terrea. 1. M. friabilis macra ſubaſpera.

Syſt. nat. I. *p.* 206. *n.* 2. Creta argillacea fiſſili-friabilis.

Syſt. nat. XII. 3. *p.* 204. *n.* 17. Argilla mixta pallida acido efferveſcens.

Cronſt. miner. 26. Marga friabilis.

Carth. min. 6. Argilla rudis calcaria igne indureſcens.

α) *Waller. miner. p.* 15. *n.* 2. Marga argillacea pinguedinem imbibens calore indurabilis.

Waller. Syſt. miner. 1. *p.* 69. *n.* 1. Marga argillacea lubrica friabilis plaſtica.

β) *Waller. miner. n.* 26. Marga fullonum ſaponacea lamelloſa.

Waller. Syſt. miner. 1. *p.* 71. *n.* 2. Marga argillacea compacta arida, particulis ſubtiliſſimis, pura.

Carth. miner. p. 7 *n.* 1. Smectis ſubtilis arida cum acidis efferveſcens.

γ) *Waller. Syſt. miner.* 1. *p.* 72. *n.* 3. Marga cretacea inquinans.

δ) *Waller. miner. n.* 27. Marga in aëre deliqueſcens, pinguefaciens.

Waller. Syſt. miner. 1. p. 72. *n.* 4. Marga arenaſea, particulis arenaſeis mixta, arida, deliqueſcens, pinguefaciens.

Habitat paſſim per ſtrata, in Europa, *tenax, coloris varii ſiccatione expalleſcens, cruda cum aqua ſpumeſcens, non uſtulata, agris fertiliſſima, cum ſiccata non induretur, nec radiculas comprimat, ſed friabilis evadat & aquæ autumno potiſſimum ſtagnantis acidum obſorbeat & ad fluxum minerarum ferri facilitandum adhita; interdum a mica innidulante micans, aut gipſi particulis vel arenæ (δ) granulis inquinata, ab his aſpera & igne in vitrum pellucidum tranſiens, incruſtandis vaſis argillaceis aptiſſimum rariſſime metallis aliis prægnans præter ferrum, cujus calce facta quoque uſtione adhuc tingitur, dominante ceterum modo (γ) terra calcaria, adeo interdum, ut calx, quamvis non optimæ notæ, ex ea uri queat, modo (α β) argilla ut lubrica ſit attactu, & parando tartari cremori aut depurando ſaccharo, fullonum uſui, nonnunquam adeo, ut conficiendis fiſtulis tabacariis & vaſis myrrhinis, quæ fayance audiunt, adhibeatur.*

nilotica. 2. M. farinoſa ſubfuſca uſtulata cinerea humo miſta.

Syſt. nat. XII. 3. *p.* 205. *n.* 19. Argilla mixta humo ſubfuſca efferveſcens non inquinans.

Muſ. Teſſin. 110. Argilla ſubfuſca.

β) *Waller. min. p.* 31. Marga fuſoria vitrificationem admittens.

Waller. Syſt. min. 1. *p.* 75. *n.* 6. Marga farinacea n... lis non cohærens.

Habitat in Ægypti *agris à* Nili *aquis recedentibus relicta; fertiliſſima, β) in* Uplandia Sueciæ *poliendo non lubrica.*

ſatiſcens. 3. M. molliſſima fiſſilis cineraſcens in aëre fatiſcens.
Syſt. nat. 1. *p.* 154. XII. 3. *p.* 38. *n.* 8. *Muſ. Teſſ.* 16. *n.* 5. Schiſtus (margaceus) ſcriptura rubra.
Cronſt. miner. §. 27 Marga indurata aëre fatiſcens.
Waller. Syſt. miner. 1. *p.* 73. *n.* 5. Marga indurata fiſſilis friabilis aëre fatiſcens.
Habitat per ſtrata jam craſſiora jam tenuiora, ſæpe inter ſtrata calcaria intermedia, in Suecia, Germania, Helvetia, *agris perinde proficua ac terrea, in flaveſcentem vireſcentem; cæruleſcentem, ruſum colorem interdum vergens.*

poroſa. 4. M. indurata poroſa ex aquis præcipitata in fragmenta indeterminata diſſiliens.
Syſt. nat. I. *p.* 189. *n.* 5. XII. 3. *p.* 186. *n.* 1. Tophus (Ludus) glareoſo-argillaceus polymorphus.
Waller. miner. 331. Porus aqueus ſolidus ſub aqua minus ſ. non fluente depoſita materia concretus.
Waller. Syſt. miner. 2. *p.* 394. *n.* 17. Tophus ſolidus margaceus, ſub aqua minus vel non fluente depoſita materia concretus.
Cronſt. miner. §. 28. A. Marga indurata amorpha.
β) *Syſt. nat.* XII. 3. *p.* 190. *n.* 17. Tophus (argillaceus) calcario argillaceus amorphus.
Habitat in Angliæ, Sueciæ Germaniæ *aquarum potiſſimum ſtagnantium fundo, a multa ferri calce inhærente uſtulando rubeſcens, ea partim de cauſſa in ferri uſtrinis mineris eliquandis addita, alias albida, aut cinerea.*

ſchiſtoſa. 5. M. indurata non fatiſcens cineraſcens texturæ ſchiſtoſæ in fragmenta diſcoidea diſſiliens.
Cronſt. miner. §. 28. B. Marga indurata ſtratis continuis.
β) M. ſchiſtoſa cruda viridis.
Syſt. nat. XII. 3. *p.* 37. *n.* 4. Schiſtus (viridis) ſcriptura alba efferveſcens viridis.
de Coſta foſſ. 183. Schiſtus viridis.
Habitat per ſtrata in Germania; Hetruria; *ædificiis; tectis præſertim, viis quoque publicis adhibitat, micæ interdum* (Macigno, Pietra ditorre) *particulis inſperſis micans, cupri calcibus aut mineris innidulantibus nonnunquam fœta, alia quoque foſſilia interdum continens, in* Bohemiæ *monte* Luſihizenli *forma globoſa, & adeo columnari obvia.*

bitumino-ſa. 6. M. indurata non fatiſcens nigra pinguiuſcula intus nitidula texturæ ſchiſtoſæ in fragmenta diſcoidea diſſiliens.
Syſt. nat. I. *p.* 179. *n.* 9. *Schreb. lith.* 63. *Inſt. min.* 92. Cuprum ſchiſti.
Syſt. nat. XII. 3. *p.* 145. *n.* 11. Cuprum (ſchiſtoſum) matrice ſchiſtoſa.
Waller. miner. 281. Minera cupri lapidi fiſſili inhærens.
Waller. Syſt. miner. 2. *p.* 292. *n.* 18. Cuprum corroſum vel diverſimode mineraliſatum, ſchiſto inhærens.
Habitat in montibus ſtratariis Thuringiæ, Hennebergiæ, Haſſiæ, *a bitumine, quo perfuſa eſt, nigra, atque inflammabilis, difficulter fundenda, marinarum plantarum veſtigia impreſſa ſibi ſæpe monſtrans, crebro etiam innidulans cuprum, rarius nativum quam calces aut mineras, inter has frequentiſſime pyritaceam, ſæpius piſcis facie indutam.*

anonyma. 7. M. intus micans duriuſcula coloris obſcure ferrei. *de Serviere & Vincent de Villas chem. Annal.* 1784. 2. *p.* 287.
Habitat in Gallia *prope* S. Ambroix, *polituram quodammodo admittens, & ad chalybem parumper ſcintillans, præter pauxillum terræ ſchiſtoſæ ſulphuris & quartzi,* $\frac{1}{25}$ *ferri,* $\frac{7}{50}$ *argillæ, &* $\frac{69}{100}$ *terræ calcariæ continens.*

21. MAGNESIATA. Ex terra calcaria, pauca magneſia nigra, aëre fixo & aqua conſtans.

Duriuſcula, Lamelloſa, ſponte in grana ſecedens.

Ad aërem ſenſim colorem ſuperficiei mutans, tardius, & ſæpe non niſi facta trituratione cum acidis effervеſcens.

In igne nigreſcens.

granularis. 1. M. ſubopaca in igne tranquilla diſſiliens in fragmenta indeterminata formæ communis.
Cronſt. miner. §. 9. C. 1. , *n ot.*

Bergm. de min. ferr. alb. §. X. & *de tab. ferrum.* §. XVII. *de Morvaan nov. act. Divion.* 1783. *ſem.* 2. *p.* 9. &c.

Habitat paſſim in Suecia, *prope* Tunaberg. *in* Sudermannia, *in porœcia* Uplandiæ Lena, *etiam prope* Brion *in* Burgundia, *marmori ſquamoſo extrinſecus ſimilis, at uſtione nigreſcens, &* $\frac{2}{5}$ *ponderis ſui amittens, & calcem præbens eximiam, arenæ parum ferentem & cæmento pro pavimentis & ædificiorum paribus ſub aqua poſitis cito indurando aptiſſimam.*

flexuoſa. 2. M. intus nidula ſcriptura cana inquinans in fragmenta indeterminata diſſiliens, lamellis incurvis.

Karſt. Lesk. Mineralkab. I. *p.* 274.

Hoffmann bergm. Journ. 1789. I. *p.* 191.

Habitat in Hercynia, Saxonia e. gr. *prope* Camſdorf., Scharfenberg, *paraſitica, ex rufeſcente vel cinereo alba.*

ſpatoſa. 3. M. intus nitidula ſcriptura cana inquinans in fragmenta rhomboidalia diſſiliens, lamellis rectis.

Karſt. Lesk. Mineralkab. I. *p.* 273. &c.

Hoffmann bergm. Journ. 1789. I. *p.* 189. &c.

α) formæ communis.

β) reniformis.

γ) forma cryſtallorum nitidarum ſæpe exillium nunc ſparſarum nunc in ſeries aggregatarum.

a. lentis.
a. communis.
b. ephippium curvatura referentis.

b. rhombi.
a. faciebus planis.
b. faciebus convexis.

c. pyramidis hexaëdræ ſimplicis acuminatæ.
a. plenæ.
b. intus cavæ.

Habitat in Hercyniæ, Saxoniæ *fodinis nunc diaphana, nunc ſubopaca, rarius opaca, coloris ex cinereo, rubello aut flaveſcente albi, iſabelini, roſei, carnei vel ex fuſceſcente rubri in ſuperficie ſæpe diverſi ex flaveſcente cinerei, vel ex flaveſcente aut nigricante fuſci, non raro cum nitoris metallici ſpecie conjuncti, minore magneſiæ nigræ portione, & plenaria fere ferri inopia a ferro ſpatoſo diſtans.*

22. GYPSUM. Ex terra calcaria & vitrioli acido conſtans.

Leve, molliſſimum, frigidiuſculum. Cum aqua forti utplurimum non efferveſcens, igne difficilime liquandum, leniori in pulverem tranſiens, qui cum aqua non ebullit, ſed cum ea in paſtam ſubactus ad aërem induratur & diſtenditur.

terreum. 1. G. pulverulentum niveum.
Charpent. miner. Geogr. Churſ. p. 334.
Syſt. nat. XII, 3. *p.* 207. *n.* 6. Calx (Gur) fixa impalpabilis farinoſa.
Waller. Syſt. miner. I. *p.* 34. Gypſum terreſtre farinaceum.
Cronſt. miner. §. 14. Terra gypſea pulverulenta.
Baum. miner. I. *p.* 145. Nihil album foſſile nativum ſpurium.
Habitat v. g. *in* Saxonia *in fiſſuris & ad radicem montium & rupium gypſearum, nunc aquæ interventu fere fluida, nunc ſicca, & farinam externa facie mentiens; β) in* Sueciæ *paludibus.*

arenaceum. 2. G. granulis ſubdiaphanis albis ſegregatis.
Syſt. nat. XII. 3. *p.* 208. *n.* 7. Calx (alabaſtrina) fixa pulvereo granulata ſubæqualis ſubdiaphana.
Schreb. lith. 144. Arena gypſea.
Habitat in Thuringia, *arenam facie externa referens, ex alabaſtro fatiſcente natum.*

Alabaſtrum. 3. G. denſum macrum parum nitens in fragmenta indeterminata diſſiliens formæ communis polituram admitens.
Syſt. nat. I. *p.* 152. *n.* 11. Marmor fixum particulis arenaceis micantibus.
Syſt. nat. XII. 3. *p.* 45. *n.* 3. Gypſum particulis impalpabilibus, diaphanum.
Waller. min. p. 51. & *Syſt. miner.* I. *p.* 154. *n.* 1. Gypſum particulis minimis punctis nitens, polituram admittens.
Vog. miner. 119. Alabaſtrum.
Carth. miner. 24. Gypſus informis ſubtillis nitorem aſſumens,

Cronſt. miner. §. 15. A. Terra gypſea indurata ſolida, particulis impalpabilibus.

β) *Syſt. nat.* XII. 3. *p.* 184. *n.* 5. Stalactites (Grignardus) gypſeus ſolidus.

Cronſt. miner. §. 20. 1. Stalactites gypſeus, particulis impalpabilibus.

Habitat in Perſiæ, Hetruriæ, Siciliæ, Hiſpaniæ, Galliæ, Helvetiæ, Sueviæ, Auſtriæ, Franconiæ, *terræ* Waldeccenſis, Angliæ (Derby) *montibus ſtratariis, in vicinia fontium ſalſorum & ſalis gemmæ non infrequens, ad radicem montium* Hercynicorum, *in* Thuringia, Sibiria *integros montes vel ampla ſaltem eorum ſtrata conſtituens, rarius ſemipellucidum vel ſubopacum, utplurimum diaphanum, niveum ochroleucum, canum, infumatum, ex flaveſcente cinereum, melleum, carneum, rarius fuſcum vireſcens aut nigricans, maculis, venis, ſtriis aut faciis undulatis vel rectis, picturis arbuſcularum & mapparum geographicarum varium, ſæpius ſtalactitæ in morem natum, ſtatuis urnis, ædificiorum partibus nobilioribus internis inſerviens.*

fibroſum. 4. G. macrum fragile fibroſum in feſtucas longas diſſiliens formæ communis.

Syſt. nat. I. *p.* 152. *n.* 10. Marmor fixum, filamentis perpendicularibus parallelis.

Syſt. nat. XII. 3. *p.* 47. *n.* 1. Stirium (gypſeum) pellucidum fixum fibroſum.

Baum. min. 1. *p.* 204. Inolithus.

Carth. min. 18. Inolithus, fragmentis indeterminatis.

Cronſt. min. §. 17. Gypſum fibroſum.

Wall. miner. 49. & *Syſt. miner.* 1. Gypſum filamentis parallelis compoſitum.

Wolt. min. 18. Spatum gypſeum fibroſum.

β) Stirium (alabaſtrinum) pelluciduſſimum fixum coadunatum. *Syſt. nat.* XII. 3. *p.* 47. *n.* 3.

Waller. miner. 1. *p.* 160. *n.* 6. Gypſum ſolidum pellucidum fibroſum.

γ) Stirium (baſaltinum) obſcurum fixum, ramentis decuſſatis. *Syſt. nat.* XII. 3. *p.* 47. *n.* 4.

Habitat, raro integros montes conſtituens, in Scaniæ fodinis aluminaribus, *in* Oelandia, Weſtrogothia, Livonia, Curonia, Thuringia, Franconia, Suecia, Sina e. c. β) *in* Hiſpania & *monte* Jura Helvetiæ, γ) *in* Nericia Sueciæ, *fibris frequentius flexuoſis, quam*

rectis, parallelis, quam γ) ſparſis, faſciculatis aut ſtellatis, frequentius unicolor, quam ſtriatum, album & rufeſcens, quam cinereum carneum aut melleum, uſtione ſemper album, diaphanum, rarius ſemipellucidum, congeneribus purius hinc modulis, in quos metalla effunduntur, præprimis aptum.

ſchiſto-ſum. 5. G. macrum in fragmenta indeterminata diſſiliens fibroſo-lamelloſum, fibris brevibus lamellas perpendiculariter ſecantibus.

Waller. Syſt. miner. I. *p.* 161. *n.* 7. c. Gypſum ſtriatum, fibris magis confuſe & quaſi in lamellas congeſtis.

Habitat in Thuringia, Wirtembergia, *album.*

radiatum. 6. G. macrum parallele radiatum in fragmenta indeterminata diſſiliens.

Karſt. Lesk. mineralkab. I. *p.* 288.

Habitat, radiis nunc anguſtioribus nunc latioribus, prope Coburgum & *in* Comitatu Mansfeldenſi.

uſuale. 7. G. macrum lamelloſum, lamellis utplurimum ſphæricis, in fragmenta indeterminata diſſiliens.

α) intus nitens.

Syſt. nat. I. *p.* 152. *n.* 9. Marmor fixum, particulis difformibus.

Syſt. nat. XII. 3. *p.* 45. *n.* 2. Gypſum, particulis arenaceis micantibus.

Vogel. miner. p. 118. Gypſum.

Cronſt. miner. §. 16. Gypſum, particulis micaceis.

Waller. miner. p. 57. Gypſum, particulis parallele pipedis & globoſis concretum.

Waller. Syſt. miner. I. *p.* 157. Gypſum, particulis arenaceis micantibus.

β) intus inconſpicuum.

Syſt. nat. XII. 3. *p.* 45. *n.* 1. Gypſum (argilloſum) particulis argilliformibus opacis.

Muſ. Teſſin. 14. *n.* 12. Marmor fixum lamellatum, particulis ſpatoſis.

Carth. min. 24. Gypſus informis rudis nitorem non aſſumens.

Wolt. miner. 18. Gypſus colore ingrato.

Waller. Syſt. miner. I. *p.* 156. *n.* 2. Gypſum, particulis minimis indiſtinctis, facie terrea.

Habitat in Norwegiæ, Livoniæ, Poloniæ, Sileſiæ, Marchiæ, Saxoniæ, Thuringiæ, Hercyniæ, Luneburgi, Angliæ, Hiſpaniæ Galliæ, Sueviæ *montibus ſtratariis, integros interdum montes aut ſtrata eorum præcipua conſtituens, frequens circa thermas & fontes ſalſos, boracitæ, rarior metallorum matrix, aut corporum larvatorum granis, in quæ ſponte ſecedit nunc majoribus, nunc minoribus, adeo laxe interdum cohærrentibus, ut mollis arenarii inſtar leni inter digitos tritu divelli queant, diaphanum, rarius ſemipellucidum, ut plurimum inauratum, vel ex flaveſcente aut nigricante cinereum, canum, ochroleucum aut carneum rarius melleum, ab aqua tranſtillante interdum adeo eroſum ut fiſtulas referat, uſtum cæmento, ſtatuis, modulis, in quos metalla effunduntur, aliis uſibus inſerviens.*

lamellare. 8. G. nitens in fruſta indeterminata diſſiliens formæ communis lamelloſum, lamellis incurvis.

Waller. Syſt. miner. 1. *p.* 158. *n.* 4. Gypſum lamellare, lamellis inordinatis.

Habitat in Thuringia, Wirtembergia, Hiſpania, *nunc diaphanum, nunc opacum, infumatum, album vel flaveſcens.*

ſpeculare. 9. G. pellucidum album nitens formæ communis in fragmenta romboidalia ſpecularia diſſiliens lamelloſum, lamellis rectis.

Waller. Syſt. miner. 1. *p.* 159. *n.* 5. Gypſum lamellare pellucidum, lamellis rhomboidalibus.

Cronſt. miner. §. 18. 1. A Spatum gypſeum diaphanum.

Muſ. Teſſin. 14. Marmor indicum fixum, particulis impalpabilibus pelucidis.

Wog. min. p. 159. Glacies Mariæ.

Carth. min. 12. Spatum informe molle, lamellis parallelis æqualibus.

Habitat paraſiticum in montibus ſtratariis, *rariſſime in* ſimplicibus, *crebro in vicinia* fontium ſalſorum & *in* ſaliſodinis *frequentior paulo minerarum matrix, quam reliquæ ſpecies, aqua parumper ſolubile, uſtione pelluciditatem exuens, tum cæmento, pigmentis a paſtel cognominatis, depurando argento, ſubtillioribus imaginibus & formis inſerviens, interdum in grana majora, rarius in bacillos aut cruſtas ſecedens, bracteis tenuioribus poliſper tinnitantibus, & tenuiſſimis in quas divelli poteſt ſubflexilibus, album.*

glaciale. 10. G. pellucidum album nitens formæ communis in frag- menta cuneiformia diſſiliens lamelloſum, lamellis rectis parallelis.

Syſt. nat. I. *p.* 162. *Muſ. Teſſ.* 24. *n.* 3. Selenites ſpato- ſo-gypſeus cuneiformis.

Syſt. nat. XII. 3. *p.* 90. *n.* 8. Natrum lapidoſum gypſeo- ſpatoſum fuſiforme pellucidum.

Cronſt. miner. §. 19. *n.* 1. A. Gypſum cryſtalliſatum cuneifome.

Habitat cum ſpeculari, cui proxime affine, an vere diſtin- tum?

Selenites. 11. G. pellucidum nitens rhombeum lamelloſum, lamellis rectis parallelis, in fragmenta rhomboidalia diſſiliens. Fig. 17.

Syſt. nat. I. *p.* 162. *n.* 1. *t.* 18. *f.* 3. *Muſ. Teſſin.* 24. *n.* 1. Selenites ſpatoſo-gypſeus rhombeus.

Syſt. nat. XII. 3. *p.* 91. *n.* 9. Natrum lapidoſum gyp- ſeo-ſpatoſum decaëdrum rhombeum.

Amœn. acad. I. *p.* 475. *t.* 12. *f.* 3. Cryſtallus gypſea ſolitaria rhombea hyalina diaphana.

It. oel. 79. *ſcan.* 121. Sal petrifactum.

Del. pharm. 46. *Aldrov. muſ.* 678. *Worm. muſ.* 56. *Muſ. angl. t.* 21. *f.* 5. 6. *Rumpf. muſ. t.* 52. *f.* 1. 12. Selenites.

Waller. miner. p. 46. *n.* 1. *t.* 1. *f.* 3. *Syſt. miner.* 1. *p.* 16 *n.* 9. a. *t.* 1. *f.* 14. Gypſum cryſtalliſatum figura rhom- boidali.

Habitat cum glaciali & ſpeculari, *etiam inter Scaniæ ſchiſtum aluminarem, cryſtallis nunc majoribus, nunc minoribus ſe decuſſantibus, aut lateraliter inter ſe con- natis, ſparſim, faſciculatim, ſtellatim aggregatis, ut plurimum album rarius flavum.*

teſſullare. 12. G. pellucidum album nitens lamelloſum, lamellis rectis in fragmenta rhomboidalia diſſiliens cubicum.

α) angulis duobus truncatis. Fig. 29.

Syſt. nat. XII. 3. *p.* 91. *n.* 10. Natrum (pyritiforme) lapidoſum ſpatoſum regulare dodecaëdrum.

β) angulis quatuor truncatis. Fig. 16.

Syſt. nat. XII. 3. *p.* 91. *n.* 9. β) Natrum angulis trun- catis 14edrum.

Habitat in Germania, α) *trapeziis* 10. *minoribus*, & *pentagonis* 2. *majoribus*, β) *trapeziis* 8, *rhombis* 4, *quadratis* 2 *conſtans.*

tetraëdrum. 13. G. pellucidum album nitens tetraëdro priſmaticum in fragmenta rhomboidalia diſſiliens lamelloſum, lamellis rectis.
Gerhard Beytr. z Mineralr. 1. *p.* 272. Spathum columnare.
Habitat capillaris in Marchia *prope* Freyenwalde.

priſmaticum. 14. G. pellucidum album nitens hexaëdro - priſmaticum in fragmenta rhomboidalia diſſiliens lamelloſum, lamellis rectis.

α) priſmatibus truncatis.

β) faciebus terminalibus in aciem terminatis. Fig. 15.
Syſt. nat. XII. 3. *p.* 90. *n.* 7. Natrum (flexile) lapidoſum gypſeo-ſpatoſum decaëdrum priſmaticum flexile, particulis ſpatoſis oppoſitis.
Syſt. nat. I. *p.* 24. *n.* 2. β. *Muſ. Teſſin.* 24. *n.* 2. Selenites ſpatoſo - gypſeus priſmaticus.
Amoen. acad. I. *p.* 476. *n.* 2. Cryſtallus ſelenitica gypſea ſubſolitaria priſmatica hyalina ſubdiaphana.

γ) faciebus terminalibus pyramide triedra terminatis.
Syſt. nat. XII. 3. *p.* 87. *n.* 9. Nitrum (baſaltinum) gypſeum opacum dodecaëdrum, priſmate compreſſo hexaëdro pyramide triedra.

δ) faciebus terminalibus pyramide tetraëdra terminatis.
Karſt. Lesk. Mineralkab. I. *p.* 291.
Habitat cum glaciali & ſpeculari, α) v. g. *prope* Freyenwalde *in* Marchia, & *in* Auſtria *ad ſalines* Auſſea β) *in* Helvetia, Hercynia, Thuringia, Saxonia, Marchia, γ) *in montibus* Suecicis Nericiæ, δ) *in* Thuringia, Luſatia, *cryſtallis interdum magnis utplurimum mediocribus, etiam capillaribus ſæpe duabas faciebus glabris, reliquis priſmatis longitudinaliter ſtriatis nonnunquam geminis aut ſtellatim aggregatis.*

Pyramidale. 15. G. album nitens pellucidum in fragmenta rhomboidalia diſſiliens triedro - pyramidale lamelloſum, lamellis rectis.
v. Born ind. foſſil. 2. *p.* 85.
Habitat in canalibus, *per quos aqua ſalſa ſalinarum* Auſtriæ *ſuperioris ducitur.*

lenticulare. 16. G. album nitens pellucidum in fragmenta rhomboidalia diſſiliens lenticulare lamelloſum, lamellis rectis.
Karſt. Lesk. Mineralkab. I. *p.* 292.

β) *Syſt. nat.* XII. 3. *p.* 93. *n.* 14. Natrum (embryonatum) lapidoſum, ſquamis ligulatis ſubimbricatis canaliculatis opacis.

Muſc. Teſſin. 46. Pyrites (embryo) cryſtaliſatus triquetrer ſquamoſo-imbricatus.

Habitat prope Sangershauſen, Thuringiæ, *nunc ſolitarium, nunc parallele aut in* hemiſphæria *aggregatum & concretum.*

globoſum. 17. G. macrum in fragmenta indeterminata diſſiliens globoſum.

v. Born. ind. foſſ. 1. *p.* 16. 17. 2. *p.* 86.

Habitat in Hungaria *prope* Balobania & Schemniz, *rarius fuſcum quam album, opacum quam diaphanum, globis jam ſolidis jam inanibus, nunc vacuis nunc gypſo cryſtallino refertis.*

ſtilatitium. 18. G. ex aqua præcipitatum macrum lamelloſum, lamellis rectis, in fragmenta indeterminata diſſiliens, fragmentis in quæ ſponte ſecedit corticoſis.

Syſt. nat. XII. 3. *p.* 184. *n.* 6. Stalactites (ambiguus) gypſeo-ſpatoſus ſolidus.

Cronſt. miner. §. 20. 2. Stalactites gypſeus, textura ſpatoſa.

α) formæ communis.
β) formæ conicæ.
γ) formæ ramoſæ, Leckſtein.
δ) formæ undulatæ, Schriftſtein, Bandſtein.
ε) formæ vermiculatæ, Krœsſtein, Kragenſtein.

Habitat album, griſeum, rarius flavum α) *in* Dalecarlia Sueciæ, β) *in* Sicilia, γ) *in ſalinarum plurimarum parietibus ex ramuſculis arborum compaginatis, per quos aqua ſalſa ſtillat,* δ) & ε) *in ſalifodinis* Galliciæ.

23. HEPATICUS. Ex terra calcaria, etiam ponderoſa, vitrioli acido & phlogiſto conſtans.

Mollis, lamelloſus, formæ communis, ſponte aut frictione prægreſſa hepar ſulphuris olens, cum acidis non efferveſcens.

Igne leniori in pulverem abiens, qui cum aqua in paſtum ſub actus ad aërem induratur.

ſolidus. 1. H. denſus in fragmenta indeterminata diſſiliens polituram admittens.

Gerb. Beytr. 2. *Mineralr.* 1. *p.* 281.

Habitat in comitatu Mandsfeld.

ſquamoſus. 2. H. opacus intus micans lamellis minimis convexis ſparſis in fragmenta indeterminata diſſiliens.

Syſt. nat. XII. 3. *p.* 112. *n.* 10. Bitumen (hepaticum) gypſeum fœtidum amorphum.

Cronſt. miner. §. 24. Terra calcarea phlogiſto & acido vitrioli mixta.

Waller. Syſt. miner. 1. *p.* 165. *n.* 10. Gypſum textura irregulari, facie ſpathaſea, frictione fœtidum.

Habitat nigricans, fuſcus, flaveſcens, aut ex flaveſcente albus in Norwegia (Kungsberg.) Scania (Andrarum,) Thuringia, Bohemia, *ſali gemmæ non raro vicinus, ampla & profunda ſtrata interdum conſtituens, nonnunquam ſtrata margæ bituminoſæ cupriferæ tegentia.*

ſpatoſus. 3. H. nitens diaphanus infumatus in fragmenta rhomboidalia diſſiliens lamelloſus, lamellis rectis.

Habitat cum præcedentibus paraſiticus in comitatu Mansfeld.

24. LAZURUS. Ex terra calcaria, cujus exigua pars vitrioli acido nupta, ferri & pauciſſima argenti calce conſtans.

Opacus, duriuſculus, cæruleus, denſus, intus inconſpicuus, in fragmenta indeterminata diſſiliens, tritum pulverem album exhibens.

Ab acidis inſtilatis nec colorem mutans nec efferveſcens, igne facile in vitrum ſpumidum albiens.

orientalis. 1. LAZURUS.

Syſt. nat. I. *p.* 176. *n.* 6. Cuprum (Lazuli) cæruleum.

Syſt. nat. XII. 3. *p.* 145. *n.* 12. Cuprum (Lazuli) cæruleum ſcintillans. ♂, ☽.

Cronſt. miner. §. 109. I. B. Zeolites particulis impalpabilibus argento & ferro miſtus.

Waller. miner. p. 91. Jaſpis colore cæruleo & alio mixto, cuprifer.

Waller. Syſt. miner. I. *p.* 312. *n.* 3. Zeolites particulis ſubtiliſſimis, colore albo & cæruleo, argentum continens.

Habitat in Sibiria *meridionali*, Bucharia, Sina *ſeptentrionali*, *regno* Tibetano, Perſia, Natolia, *pretioſus; polituram marmoris admittens, læviuſculus, punctis, glandulis, venis ſpati efferveſcentis albi, quartzi albi & pyritæ durorum varius, diu in acidis morando colorem exuens, vitrioli acido bulliente totus ſolvendus; vaſis & ornamentis pretioſis & pigmento egregio Ultramarini nomine celebri inſerviens.*

25. **FLUOR.** Ex terra calcaria & acido ſui generis conſtans.

Subponderoſus paraſiticus, nunquam durus; ad aquæ bullientis æſtum uſque excalefactus in tenebris lucens.

Cum acidis non efferveſcens, ſed mineralibus bullientibus totus ſolvendus & tum aërem acidum proprii odoris & indolis ſpirans.

Solus igne difficulter, una cum terra calcaria puriore facilime in vitrum tenuiſſimum liquandus.

pulverulentus. 1. Fl. albida inconſpicua pulverulenta, particulis majoribus non cohærentibus.

Gr. v. Lemberg chem. Annal. 1787. 2. *p.* 441. Phoſphoreſcirende Erde.

Klaproth 1787. 1. *p.* 52. 1789. 1. *p.* 13.

Habitat in Hungariæ *comitatu* Marmoros *medius inter quartzum venam 4 pedum efficiens.*

compactus. 2. Fl. ſubdurus compactus, texturæ planæ, diaphanus fragilis in fragmenta indeterminata diſſiliens, formæ communis.

Syſt. nat. XII. 3. *p.* 99. *n.* 7. Muria (Chryſolampis) lapidoſa ſubquartzoſa aggregata ſparſa fixa.

Waller. miner. p. 90. Spatum ſolidum plus minus pellucidum, particulis non diſtinguibilibus.

Waller. Syſt. miner. 1. *p.* 172. *n.* 1. Fluor mineralis, particulis impalpabilibus, facie vitrea.

Cronſt. miner. §. 98. Fluor, particulis impalpabilibus, figura indeterminata.

Habitat in Suecia (*prope* Yxſio) Hercynia (*prope* Stollberg & Strasberg, *heic vena ad 2 uſque orgyas alta*) *principatu* Halberſtadienſi, Bohemia, *ex viridi canus*,

In Turingia *tamen prope* Steinbach *plures rupes* (Flusberge) *eminent, ex mero fluore conflati. Voigt min. n. bergm. Abh.* 2. *p.* 61. *Pondus ſpecificum* = 3148 *ad* 3184, 1000.

ut tamen nunc proprius in vireſcentem, nunc magis in albidum colorem inclinet, fragmentis, in quæ ſponte ſecedit grana majora referentibus, aut corticoſis, egregie cum reliquis ſpeciebus & explorandis & quæ difficilius liquantur, liquandis mineris, atque unacum gypſo aut baryte corticivitreo vaſis metalicis, ſuperinducendo inſerviens.

ſpatoſus. 3. Fl. ſubdurus nitens fragilis formæ communis in fragmenta pyramidalia diſſiliens lamelloſus.

Syſt. nat. I. *p.* 164. *n.* 5. *Muſ. Teſſin.* 36. *n.* 6. Muria lapidea phoſphorans.

Syſt. nat. XII. 3. *p.* 100. *n.* 8. Muria lapidoſa ſpatoſa aggregata ſparſa fixa.

Waller. Syſt. miner. I. *p.* 173. *n.* 2. Fluor mineralis, facie ſpataſea, particulis nitentibus.

Rinm. act. Stockh. 1747. 168. Spatum lucens.

Baum. miner. I. *p.* 244. 262. Fluor ſpatoſus.

Cronſt. miner. §. 99. Fluor ſpatoſus.

β) fragmentis, in quæ ſponte ſecedit, grana minima referentibus.

Cronſt. min. §. 100. γ. Fluor cryſtalliſatus, figura ſphærica.

Waller. Syſt. miner. I. *p.* 175. *n.* 3. Fluor mineralis granularis granulis cryſtallinis compoſitus.

Habitat in Norwegiæ, Sueciæ, Angliæ, Hiſpaniæ, Saxoniæ, Sileſiæ, *fodinis*, *prope* Sulzbæchle *in* Wirtembergia *prope* Brienz *in* Helvetia, *albus*, *infumatus*, *viridis*, *cæruleus violaceus*, *purpureus*, *roſeus*, *mellcus*, *aut vel arbuſcularum imaginibus pictus*, *varius*, *ſemipellucidus aut diaphanus, in fragmenta triedra, rarius tetraëdra diſſiliens polituram admittens*, *prægreſſa leniſſima uſtulatione elegantiorem*, *lamellis rariſſime curvis*, *fragmenta, in quæ ſponte ſecedit*, *grana majora aut minora, rarius bacillos*, *rariſſime divergentes*, *referentibus.*

tabularis. 4. Fl. tabulis rhombeis oblongis.

Storr. Alpenr. 2. *p.* 46.

Waller. Syſt. min. I. *p.* 177. *n.* 4. d. Fluor cryſtalliſatus lamellaris.

Habitat in Helvetia, Alſatia, Saxonia.

cubicus. 5. Fl. ſubpurus nitens lævis lamelloſus fragilis in fragmenta pyramidalia diſſiliens cubicus.

Cronſt. miner. §. 100. Fluor cryſtalliſatus cubicus.

Waller.

Wall. ſyſt. min. 1. *p.* 176. *n.* 4. *α.* Fluor cryſtalliſatus rhomboidalis.

α) cubis perfectis.

β) cubi angulis truncatis.

γ) cubi marginibus truncatis.

δ) cubi angulis marginibusque truncatis.

ε) cubi marginibus in aciem terminatis.

a) faciebus planis.

b) faciebus concavis.

ζ) cubi marginibus pyramide triedra terminatis.

Hoffmann bergm. Journ. 1789. 1. *p.* 229.

Ferber 3 Briefe p. 53.

Habitat in Suecia, Anglia (Derby & Northumbria,) Hiſpania, Gallia, Hercynia, Saxonia, Sileſia, *eadem colorum varietate quam ſpatoſus, ſæpe pellucidus, rariſſime opacus, cryſtallis majoribus, minoribus, minimis, ſolidis, cavis, ſupra apertis, clauſis, aquæ guttulam alia foſſilia includentibus, plane vacuis, ſe includentibus, ſic ſuperimpoſitis, decuſſatim, lateraliter, inordinatim concretis, ſparſim in renis vel globi imperfecti ſpeciem aggregatis.*

pyramidalis. 6. Fl. ſubdurus nitens lamelloſus fragilis in fragmenta pyramidalia diſſiliens.

α) pyramide ſimplici.

a) inverſa. *Werner von aeuſſerl. Kennz. p.* 172.

b) recta.

a) triedra.

†) truncata.

Pini nouv. cryſt. de feldſp. &c. Milan. 1779. 8.

††) faciebus ſphæricis.

Geth. Mineralſ. p. 72.

b) hexaëdra, faciebus ſphærico-concavis.

Werner von aeuſſerl. Kennz. p. 176.

β) pyramide duplici.

tetraëdra.

Syſt. nat. I. *p.* 165. *n.* 5. XII. 3. *p.* 102. *n.* 5. Alumen (ſpatoſum) lapidoſum calcario-ſpatoſum diaphanum.

Amoen. acad. I. *p.* 481. Cryſtallus aluminiformis ſpatoſa imbricata obtuſa.

Cronſt. miner. §. 100. δ. Fluor cryſtalliſatus octaëdricus.

Wall. ſyſt. min. 1. *p.* 176. *n.* 4. b. Fluor mineralis cryſtalliſatus octaëdricus.

Vog. miner. 164. Pſeudo-amethyſtus; Pſeudo-ſmaragdus.

Habitat rarior in Nericia Sueciæ, Saxonia, Bohemia; *in ducatu* Milanenſi, *eadem colorum varietate conſpicuus quam ſpathoſus.*

26. APATITES. Ex terra calcaria & phoſphori acido conſtans.
Fragilis, duriuſculus.
Aqua forti ſolubilis, prunis inſperſus lucem vireſcentem in tenebris ſpargens, igne difficilius liquandus.

rupeſtris. 1. A. compactus opacus albidus.
Cronſt. Journ. de phyſ. 1788. *Aug. p.* 248.
Habitat in Hiſpaniæ provincia Eſtremadura, *integros colles & ſtrata cum quartzi ſtratis alterna conſtituens, in pago* Logroſen *ædificiorum materia princeps, fortiori igne in ſpeciem encauſti albi abiens.*

octaëdrus. 2. A. nitore pinguiuſculus paraſiticus in fragmenta indeterminata diſſiliens ſemipellucidus texturam minute granulatam transverſim fractus lamelloſam monſtrans, tabulis octaëdris.
Karſten Schr. berl. Naturf. 9. *p.* 355.
Habitat in Saxonia *prope* Ehrenfriedersdorf.

tabularis. 3. A. nitore pinguiuſculus paraſiticus in fragmenta indeterminata diſſiliens ſemipellucidus texturam minute granulatam. tranſverſe autem fractus lamelloſam monſtrans, tabulis hexaëdris.
Karſten Schr. berl. Naturſ. 9. *p.* 355.
Habitat in Saxonia *prope* Ehrenfriedersdorf.

priſmaticus. 4. A. nitore pinguiuſculus paraſiticus ſemipellucidus ſubponderoſus in fragmenta indeterminata diſſiliens texturam minutim granulatam tranſverſe autem fractus lamelloſam monſtrans, priſmatibus hexaëdris.
Schnecker chem. Annal. 1785. 1. *p.* 446.
Werner bergm. Journ. 1788. 1. *p.* 76.
Klaproth bergm. Journ. 1788. 1. *p.* 294. & *chem. Annal.* 1789. 1. *p.* 10. 117.
Karſten Schr. berl. Naturſ. 9. *p.* 355.

Habitat in Saxonia *prope* Ehrenfriedersdorf & Schneeberg, *in* Bohemia *prope* Kuttenberg & Schlackenwald, *ſæpe cum ſtanni mineris & fluore obvius*; *frequentius viridis, dilute violaceus, rubellus aut albus quam ochroleucus, cinereus, cæruleus aut caryophyllinus, igne colorem & pelluciditatem amittens, vix tamen liquandus, creberrime longitudinaliter ſtriatus, cryſtallis parvis, nunc ſolitariis, nunc inordinatim cohærentibus, priſmatibus jam perfectis, jam alterutro vel utroque fine in pyramidem hexaëdram terminatis, nunc marginibus lateralibus in aciem terminatis, terminalibus autem una cum angulis truncatis, nunc marginibus lateralibus rotundatis ut cylindros mentiantur, ponderis ſpecifi* = 3218 : 1000.

columnaris. 5. A. nitore pinguiuſculus paraſiticus ſemipellucidus in fragmenta indeterminata diſſiliens texturam minutim granulatam tranſverſe autem fractus lamelloſam monſtrans, priſmatibus octaëdris.

Karſten Lesk. Mineralkab. 1. *p.* 283.

Habitat in Saxonia *prope* Schneeberg & Ehrenfriedersdorf.

triedrus. 6. A. nitore pinguiuſculus paraſiticus ſemipellucidus in fragmenta indeterminata diſſiliens texturam minutim granulatam tranſverſe fractus lamelloſam monſtrans, priſmatibus triedris.

Karſten Schr. berl. Naturf. 9. *p.* 355.

Habitat in Saxonia *prope* Ehrenfriedersdorf.

27. BORACITES. Ex terra calcaria, majore magneſiæ albæ portione, multo ſale ſedativo, & paucula terra aluminari, ſilicea & ferri calce conſtans.

Durus, lamelloſus, leviuſculus, cubicus.

Cum acidis non efferveſcens, igne primo decrepitans, fortiori in vitrum flavicans abiens.

cubicus. 1. BORACITES.

Weſtrumb chem. Annal. 1788. 1. *p.* 483. & *Schr. berl. Naturf.* 9. *p.* 13. Sedativſpat.

Heyer chem. Annal. 1788. 2. *p.* 21. Sedativſpat.

Laſius chem. Annal. 1787. 2. *p.* 333. Wurflichte Quarzcryſtallen.

Habitat Luneburgi *in gypſo uſuali nidulans, cubis utplurimum ſolitariis, raro, niſi exiles ſint, integris, frequentius angulis & marginibus truncatis, ita ut 26 facies præ ſe ferat degenerans cubus, angulis nunc omnibus in triangula, nunc 4 in triangula, 4 alterni in ſexangulas facies abeuntibus, ita ut corpus ex faciebus* 10 *ſexangulis, quarum 4 minores, 4 triangulis, &* 12 *parallelogrammis conſtet, utplurimum hyalinus, rarius cinereus, aut in violaceum vel thalaſſinum* colorem *vergens.*

ORDO IV.

TERRÆ ARGILLACEÆ.

Ex terra aluminari potiſſimum compoſitæ.

28. ALUMINARIS. *Fere tota ex terra* aluminari conſtans.

Macra, *levis*, *inconſpicua*, *terrea*, *linguæ parumper adhærens*, *inquinans*.

Aqua forti fere tota ſolubilis, *igne ſe contrahens & indureſcens*, *fortiori*, *quo candet*, *lucem ſpargens*.

nativa. 1. ALUMINARIS. *Schreber Naturf.* 15. *p.* 209.

Habitat reniformis vel botryoides in Sileſiæ *principatu* Munſterberg, *in* Britannia, Longobardia & *præſertim* Halæ Saxonum *in horto pædagogii*, *heic innidulantibus quartzi granis & gypſi cryſtallis paulisper impura*, *molliſſima*, *alba*, *in fragmenta indeterminata diſſiliens.*

29. ARGILLA. Ex terra aluminari & ſilicea, utplurimum etiam ferri calce & phlogiſto conſtans.

Opaca, inconſpicua, formæ communis, attactu blanda, terrea, leviuſcula, mollis, aquam & oleum imbibens & retinens, utroque emollitu, priori plaſtica, & *odorem ſibi proprium ſpirans.*

Cum aqua forti non efferveſcens, igne ſe contrahens & indureſcens.

porcellana. 1. A. macra alba friabilis linguæ perparum adhærens uſtione alba & fortiſſimo in porcellanam abiens.

Cronſt. miner. §. 78. A. Terra porcellanea.

Waller. ſyſt. miner. I. *p.* 51. *n.* 9. Argilla apyra macra pura.

Carth. miner. 5. Argilla rudis pura igne indureſcens.

α) coagmentata.

Syſt. nat. XII. 3. *p.* 200. *n.* 1. Argilla (apyra) apyra albida.

Wall. min. 19. Argilla apyra.

β) pulverulenta.

Wall. miner. 23. Marga porcellana.

Vogel miner. 33. Argilla porcellana.

a) micæ particulis immiſtis.

Syſt. nat. XII. 3. *p.* 200. *n.* 3. Argilla (porcellana) albida ſubfarinacea, atomis nitidis.

Habitat rarior per ſtrata in Japonia, Sina, Sibiria (e. g. *prope* Arſzamas,) Hungaria (*prope* Felſobanya & Schemniz,) *in* Italia (*prope* Berganum, Tretto, Baudiſſe,) *in* Galliæ *provinciis,* Forez, Burgundia, Campania, Alvernia, Britannia, Normannia, Picardia, Hannonia, Flandria, Belgio fœderato (*prope* Maſtricht,) Daniæ *inſula* Bornholm, *in* Suecia, *potiſſimum in* Scania, *in* Sileſia (*prope* Gieren,) *in* Bohemia (e. gr. *prope* Gaden,) *in* Saxonia (*prope* Aue, Elterlein & Seidliz,) *in circulo* Salica *prope* Guemriz, *ad montem* rheno inferiori *confinem* Drachenfels *in* Franconia (*prope* Kizingen & Norimbergam,) Wirtembergia (*prope* Hornberg,) *in* Paſſa-

via, *prope* Hallein Salisburgi, *prope* Vordernberg Stiriæ & *prope* Viennam, *ſæpiſſime ex feldſpato fatiſcente nata, vaſis porcellanis inſerviens in* Japonia *forma radicis arboris reperta.*

Leucargilla. 2. A. molliſſima attactu pinguiſſima linguæ adhærens tritura nitens uſtione primum nigricans tum expalleſcens, apyra.

Syſt. nat. I. *p.* 207. *n.* 2. Argilla nivea hinc inde incarnata.
Syſt. nat. XII. 3. *p.* 200. *n.* 2. Argilla apyra lubrica.
Carth. miner. 6. Argilla ſubtilis igne indureſcens & palleſcens.
Cronſt. min. §. 79. Terra porcellanea phlogiſto aliisque heterogeneis minima portione miſta.
Vogel miner. 32. Leucargilla Plinii ſ. Argilla fiſtularis.
Wall. min. 24. Marga argillacea pinguedinem imbibens calore indurabilis.
Wall. ſyſt. min. I. *p.* 53. *n.* 10. Argilla apyra pinguis lubrica.
Habitat paulo frequentior in Scania (*prope* Boſſerup,) Belgio (*prope* Maſtricht,) Gallia (*prope* Montmartre,) Colonienſi *terra* (*ad lacum* Lach,) Haſſia (*prope* Almerode,) Saxonia (*prope* Mehren & Wieſenthal,) *cinerea, nigricans, nigra, violacea, carnea, ochracea, maculis, venis, ſtriis variegata, quartzi pyritæve fruſtris immiſtis ſæpe impura, in fragmenta indeterminata interdum convexa diſſiliens, fiſtulis tabaci, vaſis, furnis, furnorumque partibus violentiam ignis experturis, vaſis figulinis nobilioribus egregie inſerviens.*

Lithomarga. 3. A. friabilis attactu pinguiſſima micans ſquamoſa.

Syſt. nat. I. *p.* 204. Marga argillacea albida.
Syſt. nat. XII. 3. *p.* 51. *n.* 1. Talcum ſubfriabile album ſubſquamoſum.
Vogel miner. 11. Argilla ſubtilis indurata ex fiſſuris petrarum, &c. *p.* 37. Medulla ſaxorum.
β) *Syſt. nat.* XII. 3. *p.* 51. *n.* 1. Talcum (viridans) ſubfriabile viride inquinans.
γ) *Schütz nov. act. Ac. Cæſ. Nat. Curioſ. Vol.* III. *app.* Terra miraculoſa Saxoniæ.
δ) *v. Trebra chem. Ann.* 1784. I. *p.* 387. Phoſphoreſcirendes Steinmark.
Brückmann chem. Annal. 1785. I. *p.* 449.
Habitat in aliis lapidibus *nidulans nunc pulverulenta, nunc coagmentata, poſteriori in caſu linguæ adhærens.*

& tritura nitens, nonnunquam in fragmenta convexa diſſiliens, pennæ acie trita (δ) in tenebris ſcintillas lucidas ſpargens, & igne pauliſper indurata (γ) polituram admittens, utplurimum ochroleuca, alias ex cineraſcente vel ruſeſcente alba, margaritacea, lavendulacea, violacea, carnea, ex fuſceſcente rubra, aut ex rubello fuſca, hepatica, ochracea, (β) viridis, unicolor aut maculoſa, venoſa vel ſtriata.

fullonica. 4. A. pinguis tritura nitens lamelloſa in aqua in pulverem dilabens in aëre fatiſcens igne fortiori in vitrum lacteum abiens.

Wall. ſyſt. min. 1. *p.* 48. *n.* 7. Argilla vitreſcens parum indurata, particulis impalpabilibus, exſiccatione lamellaris vel rhomboidalis.

Carth. min. p. 8. *n.* 2. Smectis ſubtilis cum acidis non efferveſcens.

Lehm mineral. p. 28. Smectis.

De Coſta foſſ. p. 69. *n.* 1. Marga viridi-fuſca, Terra fullonica vulgo dicta.

Habitat in Anglia, Suecia, Saxonia, Luſatia *nunc fuſca, nunc cinerea, nunc ex vireſcente alba, nunc viridis, nunc carnea, terræ calcariæ circiter* $\frac{3-4}{100}$, *& totidem calcis ferreæ continens. An diſtincta hujus generis ſpecies? Fulloniâ uſu celeberrima, oleum avidiſſime imbibens.*

cruſtacea. 5. A. pinguis lamelloſa in aqua in fruſta dilabens & agitatione ſpumans igne fortiori in vitrum ſpumidum abiens.

Syſt. nat. XII. 3. *p.* 201. *n.* 7. Argilla (fullonica) fiſſilis friabilis lubrica in aqua ſpumans.

Schreb. lithol. 132. Argilla fiſſilis.

Wolt. min. 11. Argilla ſubtilis pinguis in aqua cito liqueſcens.

Waller. min. p. 26. Argilla fullonum ſaponacea lamelloſa.

Wall. ſyſt. min. 1. *p.* 10. *n.* 6. Argilla vitreſcens ſaponacea exſiccatione cruſtacea.

Cronſt. §. 85. A. *a.* Lithomarga.

Habitat in Sueciæ *monte* Osmund, *cinerea.*

lemnia 6. A. pinguis attritu nitens linguæ parum adhærens molliſſima leviuſcula texturæ conchaceæ.

Syſt. nat. XII. 3. *p.* 201. *n.* 6. Argilla incarnata, fracturis glaberrimis.

Cronſt. min. §. 85. B. Lithomarga, Terra lemnia.

Wall. ſyſt. min. I. *p.* II. *n.* 6. C. Argilla cruſtacea incarnata.
Dal. pharmac. 20. *n.* 2. Terra lemnia.
da Coſta foſſil. 14. Terra lemnia rubra.
Habitat in Lemno, Sileſia, *magneſiam quoque, terram calcariam & ferri calcem continens, in aqua cum ſtrepitu in fruſta diſſiliens, rarius dilute carnea quam obſcure iſabellina aut dilute hepatica, interdum maculis aut arbuſcularum imaginibus nigris varia, olim Medicis uſitata.*

Sapo. 7. A. pinguis leviuſcula molliſſima tritura nitens linguæ adhærens ex fuſceſcente nigra.
Werner apud Cronſt. min. §. 84. Bergſeife.
Habitat in Polonia *prope* Olkutſch, *texturæ terræ.*

communis. 8. A. molliſſima pinguis linguæ adhærens plaſtica pauliſper inquinans texturæ terræ igne rubeſcens fortiori in vitrum vireſcens abiens.
Cronſt. §. 90. A. Argilla communis.
Wolt. min. II. Argilla rudis ſabulo deſtituta.
α) *Syſt. nat.* I. *p.* 207. *n.* 4. Argilla cæruleſcens.
Syſt. nat. XII. 3. *p.* 202. *n.* 9. Argilla (communis) humido cæruleſcens uſtione rufeſcens.
Wall. min. 16. Argilla vitreſcens rudis.
Wall. ſyſt. min. I. *p.* 40. *n.* I. Argilla vitreſcens rudis, rimis ſub exſiccatione inordinatis.
Vogel miner. 28. Argilla vulgaris.
β) *Syſt. nat.* I. *p.* 207. *n.* 3. XII. 3. *p.* 202. *n.* 10. Argilla (figulina) ſiccitate rupturis ſubteſſellata.
Wall. min. 17. Argilla teſſulata figulina.
Waller. ſyſt. min. I. *p.* 44. *n.* 3. Argilla vitreſcens exſiccata teſſularis.
Lehmann min. 16. Marga.
γ) *Syſt. nat.* XII. 3. *p.* 202. *n.* II. *it. wgoth.* 251. 267. Argilla incarnata.
δ) *Vogel min.* 31. Linus. Terra lateritia.
Habitat per omnem terrarum orbem, *ampla ſæpius & alta, parum ceterum a ſuperficie diſtantia ſtrata conſtituens, vegetabilium veſtigia impreſſa præ ſe ferens, rimis innumeris crebo fiſſa, ex cæruleſcente vel flaveſcente cinerea, infumata, obſcure cæruleſcens, rarius viridis aut carnea, nunc minore, nunc (δ) majore terræ ſiliceæ copia prægnans, vulgatiſſima vaſorum figulinorum & laterum materies, plurima ex fatiſcentibus durioribus nata.*

indurata. 9. A. mollis pinguiuſcula linguæ parum adhærens in aqua dilabens & emollienda.

Wall. ſyſt. min. 1. *p.* 62. Argilla acte cohærens lapidea, & *p.* 380. *n.* 1. Steatites argillaſeis particulis arcte coherentibus durus.

β) *Wall. ſyſt. min.* 1. *p.* 10. *n.* 5 Argilla vitreſcens, exſiccata granularis.

Habitat per omnem terrarum orbem, *leviuſcula, ex flaveſcente, cæruleſcente aut vireſcente cinerea, & ruſeſcente, fuſca, ſordide roſea aut viridis, aut maculis rotundatis varia, texturæ terreæ, ut tamen nunc plana magis ſit, nunc ad feſtucas propius accedat, rarius ad ſchiſtum, interdum adeo dura, ut lapidis loco ædificiis inſerviat.*

fiſſilis. 10. A. molliſſima ſubmacra linguæ parum adhærens texturæ ſchiſtoſæ in fragmenta diſcoidea diſſiliens.

Syſt. nat. XII. 3. *p.* 38. *n.* 7. Schiſtus (argillaceus) ſcriptura cinerea friabilis cinereus.

Waller. ſyſt. miner. 1. *p.* 45. *n.* 4. Argilla vitreſcens, exſiccata fiſſilis.

Habitat ubique terrarum e. g. *in* Suecia, Saxonia, *circulo* Salico, *ſtrata ampla conſtituens, lithanthraci creberrime vicina, cujus etiam bitumine perfuſa, eoque denigrata, alias cinerea, rarius cærulea, ex cæruleo aut rubro flavicans, aut fuſca, interdum micans, vegetabilium, præſertim filorum veſtigia impreſſa, ſæpe monſtrans aqua emollienda.*

ſterilis. 11. A. ſubmacra lamelloſa ſiccata alba, igne rufeſcens parum indureſcens paulo fortiori liquanda.

Syſt. nat. XII. 3. *p.* 203. *n.* 14. Argilla mixta ſubfiſſilis glareoſa.

Cronſt. miner. §. 90. A. E. Argilla Bjorklera.

Waller. ſyſt. min. 1. *p.* 45. *n.* 4. a. Argilla fiſſilis alba.

Habitat in Sueciæ, *præcipue* Sudermanniæ, *campis ſteriliſſimis, ſolis fere betulis favens, integra ſtrata cum arenæ ſtratis alterna conſtituens.*

bulloſa. 12. A. pinguis mollis tritura nitens linguæ parum adhærens plaſtica cinerea igne rubeſcens & bulloſa.

Habitat in Tranſilvania.

Bolus. 13. A. pinguis attritu nitens ore liqueſcens aqua difficilius emollienda & minus tenax texturæ conchaceæ, igne rubeſcens & facilius liquanda.

Syſt. nat. I. *p.* 207. XII. 3. *p.* 203. *n.* 13. *Muſ. Teſſ.* 110. *Schreb. lith.* 136. Argilla ore liqueſcens.

Carth. min. 6. Argilla ſubtilis, aqua in maſſam unctuoſam diſſolubilis.

Wolt. min. 11. Argilla ſubtilis pinguis.

Wall. min. 13. *n.* 6. Argilla pinguis.

Wall. ſyſt. min. 1. *p.* 49. *n.* 8. Argilla vitreſcens ſubtiliſſima pinguis exſiccatione ſolida.

Cronſt. min. §. 86. *Vogel. min. p.* 36. Bolus.

β) Terra luſitanica odorata e regione Eſtremos.

Habitat in Italia, Gallia, Germania, Armenia, *ſæpe ex fatiſcentibus lavis nata, utplurimum obſcure rubra aut fuſca, interdum flava, carnea aut cinerea, varietate innumera, prope* Idriam Carnioliæ *cinnabari, prope* Kapnick Hungariæ *argento fœta. Olim Medicorum uſu celebris.* V. *Ludwig de terris.*

ſinenſis. 14. A. ſubmacra rufa punctis maculiſque ochraceis varia, aqua emollienda.

Syſt. nat. XII. 3. *p.* 201. *n.* 4. Argilla flaveſcens, punctis maculiſque ferreo-ochraceis.

Cronſt. min. §. 84. A. Terra porcellana marte mixta.

Habitat in Gallia (*prope* Montmartre,) *in* Sinæ *collibus, heic goſſypii, oryzæ, indigoferæ ſolum conſtituens, lateribus infra aquam adhibendis egregie inſerviens.*

Rubrica. 15. A. mollis inquinans linguæ adhærens rubra fragilis aqua vix emollienda texturæ terreæ.

Syſt. nat. I. *p.* 204. *n.* 2. Marga ochracea rubra.

Syſt. nat. XII. 3. *p.* 51. *n.* 3. Talcum ſubfiſſile rubrum inquinans.

Carth. min. 73. Ferrum terreſtre durum manus inquinans.

Coſt. foſſ. 88. Creta rubra.

Cronſt. min. §. 86. 1. β. 3. Bolus rubra durior.

Wall. min. 266. Ochra rubra cretacea.

Wall. ſyſt. min. 2. *p.* 260. *n.* 22. c. Ochra ferri rubra cretacea ſolida.

Dal pharmac. 23. *n.* 5. Rubrica fabrilis.

Vogel min. 178. Rubrica.

Habitat in Sibiria (*ad flavios* Baunt & Jeſchanska,) Dalecarlia, Haſſia (*prope* Thalitter,) Bohemia, Luſatia, Gallia, *frequens minerarum ferri, quo ipſa abundat, comes.*

lutea. 16. A. molliſſima inquinans lutea ochracea.
Hoffmann. bergm. Journ. 1788. 2. *p.* 521. Gelbe Erde.
Habitat in Luſatia *ſuperiore prope* Wehrau.

viridis. 17. A. pinguiuſcula mollis compacta viridis igne intumeſcens primo nigreſcens poſt in colorem rubrum denique flavum tranſiens.
Syſt. nat. XII. 3. *p.* 203. *n.* 13. ε. Bolus viridis.
Cronſt. miner. §. 86. 1. V. Terra verde.
Habitat, ſæpius intra amygdaliten, in monte Veronenſi Baldo, Suecia, Normannia (*prope* Pontaudemer,) Saxonia (*prope* Planiz) & Bohemia (*prope* Besniz, Wiſchockzan & Brammy,) *pigmentum in aëre conſtans exhibens.*

Tripolitana. 18. A. macra ſubſcabra mollis leviuſcula linguæ adhærens difficulter liquanda attritu ad metallum metallicum nitorem aſſumens.
Syſt. nat. XII. 3. *p.* 202. *n.* 8. Argilla ſcabra nitidula flaveſcens inquinans.
Wolt. min. 11. Argilla ſubtilis macra.
Cronſt. min. §. 89. Terra tripolitana.
Vog. min. 38. *Carth. min.* 8. Tripela.
Wall. min. 33. Glarea indurata cohærens aſpera.
Wall. ſyſt. miner. 1. *p.* 91. *n.* 1. Tripela ſolida.
Habitat in inſula maris auſtralis Tanna, *regno* Tunetano & Neapolitano, ruſſico (*ad flavium* Uda,) *prope* Fedotiewa & Caſimova, *in* Suecia (*prope* Snaflanda,) *in* Flandria (*prope* Oudenarda,) Bohemia, Auſtria (*prope* Crems,) Bavaria (*prope* Ditfurt,) Wirtembergia (*prope* Calw,) Franconia (*prope* Schillingsfürſt,) Saxonia (*prope* Potſchappel & Naumburg,) Weſtphalico *circulo* (*prope* Fürſtemberg & Duisburg,) *& in* Haſſia (*prope* Grünberg & Darmſtadt,) *etiam prope* Francofurtum *ad* Mœnum, *in montibus ſtratariis, non raro una cum ſulphure aut foliorum impreſſis veſtigiis condecorata, ſtrata conſtituens aut rimas explens, frequentius iſabellina, dilute ochracea aut ex flaveſcente cinerea quam alba, aut aliis coloribus tincta, texturæ terreæ, lapidibus durioribus & metallis poliendis, modulis etiam, in quos vitra nobiliora & metalla effunduntur, egregie inſerviens.*

tumeſcens. 19. A. igne ruſeſcens ſicca ſpongioſa aquam cum intumeſcentia avidiſſime imbibens & pertinaciſſime retinens.
Syſt. nat. I. *p.* 207. *n.* 8. Argilla mixta arenacea.

Syſt. nat. XII. 3. *p.* 203. *n.* 15. Argilla mixta poroſa glareoſa.
Wall. min. 18. Argilla rubens aqua intumeſcens, eandemque diu retinens.
Wall. ſyſt. min. 1. *p.* 43. *n.* 2. Argilla vitreſcens aqua intumeſcens ſub exſiccatione membranacea.
Cronſt. min. §. 90. A. 1. ζ. Argilla intumeſcens.
Vogel min. 30. Argilla fermentans.
Habitat paſſim in campis, *potiſſimum* Sueciæ, *ſterilibus, dum ſuperficies corii inſtar exſiccatur, intus pultis inſtar molliſſima, hinc primo vere ſub pedibus obumbulantium fluctuans tremensque, ædificiis & hominibus periculoſa.*

grandæva. 20. A. macra ſubplaſtica igne rufeſcens & indureſcens ſicca friabilis ſubpulverulenta aquam cum intumeſcentia lente imbibens.
Syſt. nat. I. *p.* 207. *n.* 9. Argilla arenacea ſabuloſaque.
Syſt. nat. XII. 3. *p.* 204. *n.* 16. Argilla mixta glarea, arena ſabuloque, æſtate ſub lapideſcens.
Cronſt. min. §. 90. A. 1. ζ. 2. Argilla intumeſcens lapidoſa.
Wall. min. 32. Glarea argilloſa.
Wall. ſyſt. min. 1. *p.* 56. *n.* 12. Argilla vitreſcens; glarea mixta.
Habitat in Suecia, *præſertim in* Dalecarlia, *griſea, fuſca aut rubeſcens, æſtate adeo indureſcens, ut nec malleus, nec cuneus penetrent, cribrata pro exſtruendis piſtorum fornacibus præſtantiſſima.*

ſoluta. 21. A. ſubmacra, humida ſubplaſtica, ſicca pulverulenta igne in vitrum ſolidum abiens.
Syſt. nat. XII. 3. *p.* 207. *n.* 5. Calx (paluſtris) fixa pulverea plaſtica.
Wall. ſyſt. min. 1. *p.* 61. *n.* 14. Argilla vix coherens farinacea.
Habitat in Suecia, *potiſſimum ſub paludibus, griſea vel alba, hæc parietibus dealbandis adhibita.*

arvenſis. 22. A. cinerea, humectata in glebulas compingenda ſub exſiccatione rimas magnas agens tandem pulverulenta igne vitreſcens.
Wall. ſyſt. min. 1. *p.* 55. *n.* 11. Argilla vitreſcens humo mixta.
Habitat frequens in agris cultis.

Unbra. 23. A. bitumine perſuſa fuſca ſcriptura inquinans uſtione ruſeſcens.
Syſt. nat. XII. 3. *p.* 204. *n.* 18. Argilla humoſa fuſca inquinans.
Wolt. min. 11. Argilla pictoria ſuſca.
Wall. min. 3. Humus nigro-brunnea.
Wall. ſyſt. miner. 1. *p.* 17. *n.* 3. Humus colorata bituminoſa ſuſca, & p. 60. nr. 13. g. h. i. Argilla mineralis fuſca, obſcure fuſca & nigricans.
Cronſt. §. 283. 2. Mumia vegetabilis.
Baum. min. 1. *p.* 42. Terra umbria.
Lehm. min. 24. Umbra.
Habitat in Italia, Germania (e. gr. *prope* Erfurtum,) Scania, Anglia, *pictoribus uſitata.*

vitriolacea. 24. A. fuſca ſtiptica aquam cum gallis coctam denigrans.
Syſt. nat. XII. 3. *p.* 205. *n.* 21. Argilla mixta fuſca vitriolico ſalſa.
Habitat ſub paludibus *paſſim, ab innidulante & fatiſcente pyrita nato.*

ſalſa. 25. A. ſaporis ſalſi.
Hiærne tentam. chem. 1.
v. Born. ind. foſſil. 2. *p.* 98.
Habitat in maritimis & confiniis ſaliſodinarum e. gr. auſtriacarum, ſalisburgenſium tranſilvanicorum, *muria prægnans, cinerea vel rubra.*

cobaltiſera. 26. A. nigra cum borace igni expoſita vitrum cæruleum exhibens.
Geſn. hiſt. cobalt. 1. *p.* 21. 35.
Habitat in Wirtembergiæ *fodinis.*

cuprifera. 27. A. fuſca ſpiritui ſalis ammoniaci excaleſacto colorem cæruleum concilians.
v. Born Brief. 7. *p.* 33. 34. 8. *p.* 43.
Habitat in fodinis Temeſienſibus, *ferri cuprique calcem continens, ita ut cupri* $\frac{25}{100}$ *exhibeat.*

argentifera. 28. A. mollis plaſtica fuſione cum plumbo argentum exhibens.
v. Born ind. foſſ. 1. *p.* 83. 84.
Ferber üb. die Gebirg. u Bergw. in Ungarn. p. 57.
Habitat in Bavaria *prope* Creisdorf, *in* Hungaria *prope* Schemniz, *cinerea, flaveſcens aut ex flavo rubra, ad* $\frac{7}{100}$ *argenti continens.*

aurifera. 29. A. mollis plaſtica cærulefcens fuſione cum plumbo aurum exhibens.
v. Born ind. foſſ. 1. *p.* 67.
Habitat in Tranſilvaniæ *fodinis prope* Herczigan & Facebai.

30. PUTEOLANA. Ex terra aluminari ſiliceaque & ferro, utplurimum etiam terra calcaria conſtans.

Friabilis.

Cum aqua & calce ſubacta adeo indureſcens, ut ab aqua non penetrari poſſit, igne facile liquanda in ſcoriam nigram.

genuina. 1. P. obſcurius tincta magnetis imperium facilime ſequens.
Cronſt. min. §. 207. *n.* 8. 1. Terra pouzzolana.
Wall. ſyſt. min. 1. *p.* 95. *n.* 1. Cæmentum pulverulentum non cohærens.
Habitat in Italiæ *montibus ignivermis, etiam extinctis, frequens circa* Neapolin & Romam, *hinc inde in integros colles aggregata, cæmento aquæ impenetrebili egregie inſerviens, obſcure rubra, fuſca aut nigra.*

aſſimilis. 2. P. obſcurius tincta magneti vix obediens.
Fauj. de S. *Fond* ſur la maniere de reconn. les différ. eſpec. de Pouzzolane. Amſterd. 1780. 8.
Habitat in Gallia, e. g. *in* Occitania (*prope* Chenavari,) *hinc inde in* Germania, e. g. *in* Brisgovia (*prope* Breyſach,) *in* Haſſia (*prope* Echzel,) *in* Franconiæ (*ad montem* Pferdekopf,) *an ex fatiſcentia lapidum argillaceorum nata?*

Cineres. 3. P. cinerea pulverulenta.
Cronſt. min. §. 297. Cineres vulcanorum.
Habitat in vicinia montium ignivomorum e. g. Italiæ, *a quibus ſummo cum impetu ad immenſam ſæpe altitudinem, & ad aliquot interdum milliarium diſtantiam extruditur, in terram relabendo in clivos aggregata, aut immenſam aream obtegens, aut integras urbes*

ſepeliens, non raro tantopere ſubtilis, ut per inviſibiles rimas ciſtarum arctiſſime clauſarum penetrat, ferri magnatim ſequentis non parum continens.

arenacea. 4. P. cinerea ex granulis ſegregatis conſtans.
Syſt. nat. XII. 3. *p.* 181. *n.* 5. Pumex (cinerarius) pulvereus arenaceus.
Cronſt. min. §. 297. Scoriæ pulverulentæ.
Wall. ſyſt. min. 2. *p.* 375. *n.* 1. Porus igneus arenarius.
α) granis minoribus. Rena del Veſuvio.
β) granis majoribus. Lapilli del Veſuvio.
Habitat cum præcedente, *evidentius ex comminutis ignis ſubterranei productis durioribus orta.*

31. CÆMENTUM. Ex ferro, terra aluminari, plurima ſilicea, utplurimum quoque parciori calcaria conſtans.

Duriuſculum, leviuſculum, poroſum, texturæ terreæ, aquam, cui immergitur cum ſibilo imbibens, ſiccum & digito perſtrictum ſtrepens, aſperum, inconſpicuum.

Comminutum & cum aqua & calce ſubactum adeo indureſcens, ut ab aqua non penetretur, igne facile in ſcoriam nigram abiens.

Tufa. 1. C. in clivos integros & ſtrata ampliſſima montibus ignivomis vicina aggregatum, formæ communis.
Ferber Br. aus Welſchl. p. 67. 139. 144-147. 235-238.
Givani litolog. Veſuvian. p. 174.
Habitat in vicinia montium ignivomorum, præſertim Italiæ, *frequens circa* Neapolin & Romam, *ex conglutinata puteolana* (1.3.4.) *natum, aliorum lapidum ad inſtar extruendis domibus a multis retro temporibus inſerviens frequentiſſime*

frequentiſſime infumatum, cinereum, nigricans, fuſcum, ochroleucum, ex flaveſcenti cinereum aut ex fuſco luteum, rarius rufeſcens vireſcens aut variegatum, cryſtallis hornblendæ baſaltinæ, ſcorli granatim, feldſpati, micæ miculis; pumicis fruſtis, rarius oſſibus, teſtaceis, fructibus durioribus plenum; non raro cum acidis pauliſper efferveſcens, nunc ad aërem fatiſcens, nunc potius indureſcens.

Tarras. 2. C. ſtrata ampla argilla fertili tecta conſtituens, formæ communis.

Cronſt. miner. §. 207. *n.* 8: 2. Cæmentum induratum.
Waller. Syſt. miner. 1. *p.* 97. *n.* 2. Cæmentum induratum lapideum.
Vogel nov. comment. Goett. t. 3.
Cartheuſ. mineral. Abhandl. 2. *p.* 20.
Collin. Journ. d'un voyag. miner. cap. 17. *p.* 288. *ſqq.*

Habitat ad Rheni ripas. *potiſſimum in* Archiepiſcopatu Colonienſi (prope Andernach) *& in* Haſſia (prope Lindenſtrut, Grunberg, Bockenheim, Darmſtadt, Nidda, Eichelſachſen, *& ad montem* Vogelberg,) *ut plurimum infumatum aut nigricans, ut ædes ex eo exſtructæ triſtitiæ ſenſum animo infundant, cryſtallos hornblendæ, & micam, argillam, fruſtula quartzi, ardeſiæ, marmoris, pumicis, maculas vitro anulas ſæpe continens, in propriis molendinis comminuta cæmento aquæ impenetrabili inſerviens; an ex fatiſcente & denuo indureſcente porphyrii ſpecie natum?*

Columnare. 3. C. priſmaticum.

α) priſmatibus hexaëdris. *v. Veltheim n. chem. Entd.* 7. *p.* 74.
β) priſmatibus pentaëdris. *C. Chrn. Gmellin naturf.* 23. *p.* 115.

Habitat ad Rheni *ripas, α) prope* Andernach, *β) prope* Neuwied, *frequens quoque ad* Ætnæ *radicem.*

32. CARIOSUS. Ex terra aluminari, ſilicea & calcarea cum ferri parca portione conſtans.

Levis, mollis poroſus, in aqua in pulverem dilabens.

Cum aqua forti efferveſcens, igne indureſcens pauliſper rufeſcens.

Anglorum. 1. CARIOSUS.

Rottenſtone. *Waller. Syſt. miner.* 1. *p.* 92. *n.* 2. Tripela carioſa.
da Coſta foſſil. 87. Creta fuſca terra carioſa dicta.

Habitat in Angliæ *provincia* Derby, *potiſſimum ſupra lithanthracem, iſabellinus, obſcure cinereus aut fuſcus, ab Anglis artificibus ad polienda metalla & lapidum varia genera adhibitus.*

33. ARDESIA. Ex terra aluminari & ſilicea conſtans, quibus utplurimum pauxillum calcis ferræ & terræ calcariæ, ſæpe etiam aliquid magneſiæ & petrolei accedit.

Mollis, texturæ ſchiſtoſæ, in fragmenta (utplurimum) diſcoidea diſſiliens, opacus; formæ communis, aquam imbibens, ſed lente, ita ut non emolliatur, humectatus odorem argillæ ſpirans.

Cum aqua forti non effervefcens, igne paulo fortiori in ſcoriam turbidam abiens; in montibus primævis (in his pingui nitore conſpicuus) æque ac in ſtratariis obvius, integros montes & præcipuas eorum partes conſtituens.

Novacula. 1. A. nitidula intus micans ſubopaca duriuſcula ex vireſcente cinerea, ſcriptura albida.

Syſt. nat. XII. 3. *p.* 37. *n.* 1. Schiſtus ſcriptura alba ater ſolidus poliendus.

Woltersd. miner. 17. Schiſtus niger durus ſubtillis.

Waller. miner. 64. Fiſſilis ſolidus mollior, lamellis craſſioribus.

Baum. miner. 1. *p.* 219. Lapis lydius.

Habitat in montibus ſchiſtoſis ſtrata conſtituens v. g. *parcius in* Oelandia, *in* Franconia *prope* Lauenſtein, *polituram imperfectam aſſumens, aëre & oleo pingui indureſcens, hoc imbutus coticulæ loco inſerviens.*

tabularis. 2. A. nitidula mollis ex cineraſcente nigra ſcriptura albida, bracteis rectis.

Syſt. nat. I. *p.* 154. XII. 3. *p.* 37. *n.* 2. Schiſtus tabularis ſcriptura nivea, ater impalpabilis æqualis fiſſilis.

Cart. foſſil. 165. Schiſtus niger polituram quodammodo admittens.

Waller. miner. p. 62. Fiſſilis ſubtilior niger, polituram quodammodo admittens.
Waller. Syſt. miner. 1. *p.* 336. *n.* 1. Schiſtus ſubtilior niger, raſura albus, polituram aliquo modo admittens.
Scheuchz. alp. 1. *p.* 19. & 2. *p.* 47. & 3. *p.* 7. Lapis fiſſilis niger glaronenſis.
Cronſt. miner. §. 91. B. 1. *a*.
Habitat in Scaniæ, Helvetiæ (*præſertim* Glaronenſis,) Franconiæ (*prope* Lehſten,) Saxoniæ (*prope* Wurzbach) montibus, *polituram imperfectam admittens, maculis interdum obſcurioribus orbiculatis aut oblongis varia, raſa leviſſime cum aqua forti efferveſcens, leviuſcula, menſis, tabulis calculatoriis ſtilis inſerviens.*

tegularis. 3. A. nitidula ſubduriuſcula ex cæruleſcenti nigra ſcriptura cinerea, bracteis rectis.
Syſt. nat. I. *p.* 154. XII. 3. *p.* 38. *n.* 5. Schiſtus (Ardeſia) ſcriptura cinerea cæruleſcenti niger tinnitans.
Wolt. min. 17. Schiſtus niger durus rudis.
Coſt. foſſil. 181. Schiſtus cæruleus.
Wall. miner. p. 63. Fiſſilis durus cæruleſcens.
Wall. Syſt. miner. 1. *p.* 337. *n.* 2. Schiſtus durus raſura albeſcens clangoſus.
Carth. miner. 25. Fiſſilis durus rudis ex nigro cæruleſcens.

β) Ardeſia rubra. *Cronſt. miner.* §. 91. B. 1. *β*.
γ) Ardeſia purpurea. *Kirw. miner. p.* 86. *ſp.* 6. *var.* 1.
δ) Ardeſia purpuraſcens. *Kirw. miner. p.* 88. *ſp.* 6. *var.* 2.
ε) Ardeſia ex vireſcenti cinerea. *Waller. Syſt. min.* 1. *p.* 338. *n.* 2. b.

Habitat in Spitsberga Suecia e. g. Jemtiæ alpinis, Helſingia, Weſtmannia, Scania, Anglia, Hercynia, Saxonia, Franconia, &c. *interdum vivorum corporum, præſertim mariorum veſtigiis ornata, aut arbuſcularum imaginibus picta, aut mica vel pyritæ particulis inſperſis nitens, aut quarzi granulis largius immiſtis ſolito durior, aquam non hauriens, tectis ædificiorum inſerviens.*

ſolida. 4. A. nigricans texturæ ex ſchiſtoſo compactæ tinnitans ſcriptura cinerea.
Syſt. nat. XII. 3. *p.* 38. *n.* 6. Schiſtus ſcriptura cinerea, nigricans ſolidus tinnitans.
Waller. Syſt. miner. 1. *p.* 342. *n.* 7. Schiſtus ſolidus durus difficulter vel non in lamellas diviſibilis.

Habitat in Suecia, Hiſpania, nova Hiſpania, *in feſtucas diſſiliens, nigreſcens, fuſca, griſea aut rufeſcens.*

compactiſſima. 5. A. obſcura compactiſſima ſolidiſſima duriuſcula ſcriptura exalbida.

Syſt. nat. XII. 3. *p.* 39. *n.* 13. Schiſtus compactiſſimus.

Habitat rariſſima in Sina, nigra aut fuſca, exterius glabra inæqualis, intus compactiſſima; an diſtincta hujus generis ſpecies?

atrata. 6. A. texturæ ſchiſtoſo lamelloſæ molliſſima, ſcriptura albida.

Syſt. nat. I. *p.* 154. XII. 3. *p.* 37. *n.* 3. *it. wgoth.* 28. *Schreb. lith.* 30. Schiſtus ſcriptura alba, nigricans ſubfriabilis.

Waller. miner. 66. Fiſſilis molior friabilis.

Waller. Syſt. miner. 1. *p.* 341. n. 6. a. c. e. Schiſtus diverſo colore, niger raſura cinereum, ceteris vero coloribus concolorem exhibens pulverem ſiccus macer fragilis.

Coſt. foſſil. 167. Schiſtus niger.

Habitat in Lapponia, Scania, *aliis* Sueciæ *provinciis, macra, nigricans, fuſca aut flaveſcens, igne agitata crepitans, fortiori in vitrum ſpumoſum convertenda, raſa cum aqua forti paulisper efferveſcens.*

undulata. 7. A. nigra texturæ undulatim ſchiſtoſæ.

Waller. ſyſt. miner. 1. *p.* 345. *n.* 9. d. Schiſtus carbonarius, lamellis fluctuantibus.

Habitat in Finnia & Jemtia, *nunc mollior, igne in ſcorias poroſas, nunc paulo durior, igne in vitrum ſolidum convertenda.*

bituminoſa. 8. A. molliſſima pinguiuſcula obſcura tritura nitens, ſcriptura nigra texturæ recto-ſchiſtoſæ in fragmenta diſcoidea diſſiliens, in igne fumans aut flammam concipiens, in aperto expalleſcens.

Cronſt. miner. §. 159. Brandſchiefer.

β) *Waller. ſyſt. miner.* 1. *p.* 344. *n.* 9. b. c. Schiſtus ſolidus craſſus non fiſſilis, raſura nigra, carbonarius.

da Coſta foſſil. 168. 4. Schiſtus terreſtris niger carbonarius.

γ) *Syſt. nat.* XII. 3. *p.* 39. *n.* 10. Schiſtus (communis) ſcriptura nigra, ater ſolidus.

Waller. Syſt. miner. 1. *p.* 340. *n.* 5. Schiſtus niger pinguis, igne fumans vel odorem ſpargens raſura niger.

δ) *Cronſt. miner.* §. 158. Kolon.

Habitat in Sueciæ, Angliæ, Luſatiæ, *aliarum terrarum montibus ſtratariis, ſtrata ſæpe ampla efficiens, ſtratis*

lithanthracum & minerarum aluminis crebro vicina, petroleo, interdum quoque vitrioli acido perfuſa, aut pyritæ glebulis venisve immixtis ſcatens, hinc nigra, hinc in igne odorem, fumum, flammam ſpargens non raro ſulphuream, hinc in igne aperto cum ponderis jactura albeſcens aut caneſcens; probabiliter ex argilla ſi ſiti bitumine penetrata nata.

Kellas. 9. A. texturæ fibroſæ linguæ parum adhærens. *Bergm. Journ.* 1790. 7. *p.* 12 &c.

Habitat in Cornubiæ *montibus, cupri ſcannique venas interdum utrinque cingens, nunc plumbei, nunc rufeſcentis coloris.*

Nigrica. 10. A. atra macra molliſſima inquinans ſcriptura atra texturæ incurvo-ſchiſtoſæ in fragmenta diſcoidea aut feſtucas longas diſſiliens, in igne rubeſcens.

Syſt. nat. I. *p.* 154. XII. 3. *p.* 38. *n.* 9. *Muſ. Teſſin.* 18. *n.* 6. Schiſtus ſcriptura atra, ater inquinans.

Woltersd. 17. Schiſtus niger friabilis inquinans.

Carth. miner. 25. Fiſſilis friabilis niger manus inquinans.

Waller. miner. 67. *Baum. miner.* I. *p.* 219. Fiſſilis mollis friabilis pictorius

Waller. ſyſt. miner. I. *p.* 343. *n.* 8. Schiſtus mollis niger raſura ater pictorius.

Habitat in Weſtrogothia Sueciæ (*ad* Hunnenberg,) Franconia (*prope* Ludwigſtatt,) & Italia, *ſæpe aluminis mineris vicina, pictorum uſu celebris, bitumine & ferri calce dives, ideo igne torta odorem minus gratum ſpargens, & rubrum colorem induens, tum rubricæ loco adhibenda.*

teſſularis. 11. A. molliſſima ſubponderoſa in fragmenta trapezoidea diſſiliens, texturæ ſchiſtoſæ.

Gerh. Beytr. z. Mineralr. I. *p.* 343. *n.* 5. Schiſtus (rhombeus) tabulis quadrangularibus.

Habitat fuſca, lutea aut viridis in Sileſiæ *principatu* Liegnitz *prope* Goldberg, & *in comitatu* Glaz *prope* Neudorf, *integros montes conſtituens.*

34. **BASALTES.** Ex terra aluminari, plurima ($\frac{1}{2}$) ſilicea, & ($\frac{1}{4}$) ferri calce conſtans, quibus non raro pauxillum terræ calcariæ, magneſiæ albæ & nigræ accedit.

Opacus inconſpicuus, macer, tritura cana (utplurimum), in fragmenta indeterminata, diſſiliens, in aëre in argillam fatiſcens.

Cum aqua forti non efferveſcens; igne paulo fortiori in vitrum ſolidum nigrum abiens.

Shiſtoſus. 1. B. ater texturæ ſchiſtoſæ.

Habitat in montibus baſaltiferis Rheni *inferioris ripæ*, & Gœttingæ *vicinis*, *olivini nidulis ſcatens.*

columnaris. 2. B. obſcurus compactus duriuſculus tenax in fragmenta priſmatica granulata ſponte ſecedens.

Baum. miner. 1. *p.* 220. Baſaltes.

Carth. min. 21. Smectis cryſtalliſatus, cryſtallis oblongis irregularibus.

Waller. miner. 139. Corneus cryſtalliſatus priſmaticus lateribus inordinatis.

Waller. ſyſt. miner. 1. *p.* 319. *n.* 9. Baſaltes figura columnari, lateribus inordinatis, cryſtalliſatus.

Habitat faſtigia montium prærupta coni truncati formam interdum præ ſe ferentia ſæpe conſtituens granitæ, gneiſſo, marmori, waccæ, argillæ, arenæ, arenario, lithanthraci, ſuperimpoſitus rarius pergneiſſum trajiciens, in maris auſtralis *inſulis*, *potiſſimum* nova Seelandia, nova Hiſpania, *in* Sicilia, Italia *meridionali* Gallia, Irlandia, Scotia & inſulis *vicinis inſulis* Feroë, Islandia, Sileſia, Hungaria (*prope* Schemniz, Cremniz, Kreutz) *occidentali* Bohemia, *ſuperiori* Luſatia, Saxonia, Thuringia, Hennedergo, & *vicinis* Franconiæ *montibus in* Palatinatu *ſuperiori*, Weteravia, Fulda, Haſſia, Gœttingenſi diſtrictu, Naſſovia, *ad* ripas Rheni *inferioris*, *ex vireſcenti cinereus*, *ex rufeſcenti fuſcus*, *creberrime ex*

cinereſcenti niger, innumera aliorum foſſilium innidulantium varietate conſpicuus, aut arborum imaginibus, quas magneſiæ nigræ debet, pictus, ferro interdum adeo dives, ut a magnete trahatur, & in uſtrinis magno cum fructu ferri mineris adjiciatur fragmentis in quæ ſecedit, rarius regularibus, rarius tabularibus, utplurimum magnis & priſmaticis, ſæpe enormis & longitudinis & diametri, creberrime hexaëdris, interdum tetraedris, (angulis rarius obliquis quam rectis) pentaedris aut heptaëdris, rarius triaedris, octaedris aut majori facierum numero conſpicuis, fragmentorum a loco natali avulſorum angulis ſæpe rotundatis aut detritis, priſmatibus nunc rectis, rarius flexuoſis, nunc continuis, rarius articulatis, nunc perpendicularibus, nunc obliquis, nunc ſparſim decumbentibus, rarius ſe decuſſantibus & ſecantibus, interdum vitri more fragilibus & companæ inſtar tinnitantibus, lapidis lydii, bibliopegis incudis loco inſerviens, ſternendis plateis, ſtruendis ædificiis, aliis uſibus eximie conducens, utrum ignis filius an aquæ ſedimentum?

pyramidalis. 3. B. obſcurus compactus in fragmenta pyramidalia ſponte ſecedens. *Hacquet chem. Annal.* 1783. 1. *p.* 522.
Habitat in Bohemiæ *montibus prope* Auſſig, *fragmentis elongatis triaedris, in* Hungaria (*prope* Scheminz & Cremniz) *fragmentis tetraedris.*

tunicatus. 4. B. compactus ſponte in fragmenta cruſtoſa ſecedens, cruſtis ſphæricis concentricis.
Habitat cum columnari, *hoc mollior, dilutius tinctus, & facilius fatiſcens.*

Wacca. 5. B. mollis fragilis compactus tritura nitidulus ſponte non in fragmenta ſecedens.
Kaſten Magaz. für Helvet. Naturk. 3. *p.* 234.
Habitat in Bohemiæ & Saxoniæ *montibus, etiam grandævis, nunc ſtrata ampla efficiens, nunc venæ inſtar rimas explens, non raro venis metalliferis dives, frequentius cinereus aut vireſcens, quam niger, texturæ planæ, quam granularis, crebra columnaris baſis, quo tamen longe celerius, fatiſcit, olivini nihil includens.*

Trapezum 6. B. duriuſculus compactus aquam imbibens in aëre rufeſcens & lamellatim fatiſcens, in igne crepitans & cum ſtrepitu diſſiliens.

Syſt. nat. I. *p.* 154. *n.* 4. *Muſ. Teſſin.* 16. Schiſtus cinereus ſolidiuſculus, ſcriptura cana.

Syſt. nat. I. *p.* 188. *n.* 25. Saxum impalpabile calcarium ſchiſtiforme cinereum.

Syſt. nat. XII. 3. *p.* 72. *n.* 2. Saxum impalpabile ſchiſtoſum ſubcalcarium, fragmentis rhombicis.

It. wgoth. 211. Saxum ſchiſtoſum calcarium cinereum.

Cronſt. miner. §. 265. Saxum compoſitum jaſpide martiali molli ſeu argilla molli indurata & . . .

Waller. ſyſt. miner. I. *p.* 361. *n.* 4. Corneus durus particulis minimis terreis in fragmenta cubica vel rhomboidalia fiſſus.

Habitat in Scandinaviæ *montibus, præſertim* Hunneberg, *in* Anglia, Scotia Pyrenæis Germania, *integros hinc inde montes aut ampla eorum ſtrata conſtituens, ſæpius venæ inſtar ſecans, in profundo rimas innumeras agens, & ſæpe in priſmata tetraedra, rarius pentaedra aut triaedra fiſſus, cinereus fuſcus aut niger, igne leniori ruſeſcens, eoque tortus a magnete trahitur; cum aqua forti pauliſper efferveſcit; vitro nigro repando, compactior lapidis lydii loco inſerviens.*

35. LAVA. Ex ex terra aluminari, plurima ſilicea & ferri calce conſtans, quibus non raro pauxillum terræ calcariæ & magneſiæ albæ accedit.

Coloris (utplurimum) obſcurioris, tritura cana, macra, in fragmenta indeterminata diſſiliens, in aëre in argillum fatiſcens.

Ignis vi aperta liquante progenita, in montibus ignivomis obvia, igne denuo liquanda in vitrum nigrum.

compacta. 1. L. ſubopaca compacta duriuſcula, texturæ conchaceæ.

Givani litologia Veſuvian. p. XLIX. & 84.

Habitat in montibus ignivomis *eorumque vicinia, ignis in minus alterata: ut lapidis, ex quo conflata fuit, manifeſta utplurimum præ-ſe ferat veſtigia, & indolem,*

ſrequentius nigra, quam cinerea, fuſca, aut rubra, ra-rius alba, rariſſime viridis aut cærulea, crebro etiam innidulantibus innumeris foſſilibus heterogeneis, aut an-tea infixis, aut poſtea natis & per aquam precipue de-poſitis variegata, in priſmata, granulata, aut fragmentis cruſtoſa concentrico ſphærica aliquando ſponte ſecedens, aut ſtiriæ in modum in foveis montium pendula ec for-mata; ædificiis, & nobilioribus ſæpe eorum partibus ex ſtruendis, ſtatuis &c. inſerviens; an ex marga pe-troſilice hornblenda, aliiſque liquatu facilioribus nata.

vitrea. 2. L. diaphana nitens compacta dura texturæ conchaceæ.
Syſt. nat. XII. 3. *p.* 182. *n.* 7. Pumex vitreus ſolidus.
Cronſt. miner. §. 292. Achates islandicus niger.
Waller. Syſt. miner. 2. *p.* 378. *n.* 5. Porus igneus lapi-deus ſolidus vitreus.
Vandell. therm. 5. Vitrum foſſile.
Givani litolog. Veſuv. p. 128. &c. Vetrificazioni compatte.
β) Lava filamentis vitreis. *Hamilt. act. angl. vol.* 70. *ad. ann.* 1780. *P.* 1. *n.* 4.
Habitat in montibus ignivomis novæ Hiſpaniæ, regni Pe-ruani, Islandiæ Hecla, Italiæ Veſuvio, *in* inſulis Pon-tia, Pentellaria Paſchali, (*hinc inde etiam in aliis regio-nibus, v. in* Hungaria *ſuperiore, in quibus ignis ſubter-raneus, aut pyrita, aut lithanthracibus fotus, graſſatus eſt, ſimile quid) non raro alia quoque immerſa continens, nunc magis nunc* (Smalti) *minus diaphana, utplurimum atra, rarius cinerea, virideſcens, cæruleſcens, aut alba, frequentiſſime formæ communis, rarius ſtalactitæ, aut (in inſula* Pontia) *globi formam induta, aut pyramidis te-tracdræ formam referens, reliquis ſpeciebus difficilius liquanda, ferri quoque minorem multo copiam continens, terræ calcariæ & magneſiæ albæ expers, olim pro glo-bulis veſtimentorum adhibita, novæ Hiſpaniæ & regni Peruani incolis in ſpeculi locum, non ſemper ad chaly-bem ſcintillans.*

ſcoriacea. 3. L. bulloſa ſcabra intus nitens texturæ conchaceæ.
Waller. ſyſt. miner. 2. *p.* 377. *n.* 3. b. Porus igneus lapi-deus facie ſcoriacea ſolidus.
Givani litolog. Veſuvian. p. 146. &c. Vetrificazioni po-roſe peſante.
de Dolomieu Memoir. ſur les isles Ponces &c. nr. III.
Habitat in montibus ignivomis, *frequens in* Aetnæ *cli-viis lavam compactam utplurimum tegens, rarius, f*

quam nigra, interdum quoque heterogenea continens, facilius reliquis ſpeciebus ſatiſcens, quibus ceterum ſimilis, frequentiſſime nigra, interdum levis, ſuperficie non raro undulata.

porosa. 4. L. opaca inconſpicua poroſa leviuſcula.
Givani litolog. Veſuv. p. 150. &c. Scorie leggiere.
de Dolomieu Memoir. ſur les Isl. Ponc. &c. n. 11.
Habitat in montibus ignivomis *eorumque vicinia, frequentior in iis, qui noſtra hac ætate adhuc exardeſcunt, quam in exſtinctis, frequentius ex apice montis protruſa, quam ex lateribus effluens, ardente lavæ fluvio obſtaculis impedito atque inturgeſcente ſæpe progenita, frequentius nigra quam rubra magneſia alba reliquis ditior, quo magis poroſa, eo magis.*

Pumex. Bimsſtein. 5. L. opaca inconſpicua parallela fibroſa poroſa levis aſpera.
Syſt. nat. I. p. 192. *n.* 1. XII. 3. *p.* 181. *n.* 1. Pumex (Vulcani) ſchiſti niger.
Dal. pharmac. 43. *Cronſt. miner.* §. 295. Pumex.
Waller. miner. p. 328. Porus igneus lapidis asbeſti.
Waller. ſyſt. miner. 2 *p.* 375. *n.* 2. Porus igneus lapideus poroſus fibroſus levis, aquis innatans.
Givani litolog. Veſuvian. p. 140. Vetrificazioni filamentoſe.
Habitat in montibus ignivomis, Islandiæ Hecla, Italiæ Veſuvio, *vicinarum inſularum*, Ventotiene, Ischia, Zanone, Pontia, Volcano, Liperi, *etiam in inſulis nonnullis archipelagi* e. g. Santorin, & *maris auſtralis* e. g. Tanna & nova Seelandia, *ſæpe aliis vulcani productis incluſa a maris undis eluta & ad remota interdum littora devecta (in* Aetna *nulla,) etiam in regionibus exardeſcente lithantrhacum ſtrato aut indicia montium olim ignivomorum non omni dubio majora præ ſe ferentibus exuſtis* v. gr. *prope Caſſellas*, in Haſſia, *ad* Rheni *ripas a* Neuwied *ad* Confluentiam *uſque & ultra*, *in* Bohemia *prope* Eger *& in* monte Schlatnizenſi *&* Salnizenſi *in* Naſſovia *prope* Datweiler in Occitania, Italia *ſuperiori & media obvia interdum in columnas regulares ſecedens, rarius fuſca aut nigra, quam flaveſcens, albida, aut cinerea, fibris interdum minus conſpicuis, utplurimum cavernoſa, aquæ ſalſæ innatans, plurima aquæ communi, feldſpati, ſcorli, micæ particulas non raro inſperſas continens, poliendis vitris, lapidibus duris, metallis idonea, vitrum ex asbeſto, an ex ardeſia, lithantrhaca & pyrite, an ex ſchiſto micaceo & granita liquata faciliori nata?*

ſpuria. 6. L. incendiorum terræ ex ardentibus carbonum foſſilium ſtratis natorum filia.

Habitat c. gr. *in* Bohemia *prope* Bilin, Seidſchüz, Laun, Soboſan, Naſſovia *prope* Datweiler, Hungariæ *monte* Schater *nunc poroſa, nunc compacta, nunc magis, nunc minus ponderoſa, ſpadicea, lateritia, cinerea, atro cærulea, ferri, chalybis, iridis coloribus ludens.*

36. MICA.

Ex terra aluminari & ſilicea atque phlogiſto conſtans, quibus utplurimum ferri calx & pauxillum magneſiæ albæ, interdum pauxillum magneſiæ nigræ accedit.

Glabra, macra, nitens, mollis, flexilis, incurve lamelloſa, in fragmenta granulata ſponte ſecedens, in diſcoidea facilime diſſiliens, leviuſcula, paraſitica.

Igne leniori non mutanda, vehementiori in vitrum durum hinc inde bulloſum liquanda.

membranacea. ruſſiſches Glas. 1. M. pelucida, lamellis amplis facilime ſeparabilibus elaſticis parallelis.

Syſt. nat. I. *p.* 155. *n.* 1. XII. 3. *p.* 58. *n.* 1. Mica membranacea fiſſilis flexilis pellucida hyalina.

Carth. miner. 14. Mica lamellis diaphanis latis tenuiſſimis flexilibus.

Cronſt. miner. §. 94. A. 1. Mica conſtans lamellis magnis parallelis.

Walt. miner. 17. Mica fiſſilis, membranis, diaphanis.

Wall. miner. 120. & *ſyſt. miner.* 1. *p.* 369. *n.* 1. Mica membranacea pellucidiſſima flexilis alba.

Bommer. miner. 216. Argyrolithus.

Habitat in Malabaria, Sibiria (*prope* Irkuz *ad lacum* Baikal & Fauly,) Ruſſia (*prope* Archangel,) Finnia Wermelandia (*prope* Elfdalen,) Galliæ *provincia* Vivarais, Sabaudia (*prope* Genevam) *maſſis al quæ ulnarum inter*

dum diametra, granitæ partem conſtituens lamellarum ſumma flexilitate facile a gypſo ſpeculari & glaciali diſcernenda.

laminoſa. 2. M. diaphana colorata, lamellis amplis parallelis facilime ſeparabilibus.

Syſt. nat. I. *p.* 155. *n.* 2. XII. 3. *p.* 58. *n.* 2. Mica membranacea fiſſilis flexilis ſubdiaphana albida.

Cronſt. miner. §. 95. 1. Mica lamelloſa martialis.

Waller. Syſt. miner. 1. *p.* 369. *n.* 2. Mica membranacea ſemipellucida rigida.

Habitat potiſſimum in granite montium primævorum, *utplurimum infumata aut nigra, interdum fuſca, aurea, rubra, aut alba rariſſime ſola in ſchiſti ſpeciem concreſcens.*

ſquamoſa. 3. M. ſubopaca, lamellis minoribus ſparſis incurvis.

Waller. miner. 130. *ſyſt. miner.* 1. *p.* 370. *n.* 3. Mica ſquamulis rigidis inordinate mixtis.

α) *Syſt. nat.* XII. 3. *p.* 58. *n.* 3. Mica ſquamoſa rigidula argentata.

Cronſt. miner. §. 94. 2. Mica ſquamoſa.

Woltersd. miner. 17. Mica compacta, membranis ſquamoſis, argentea.

β) *Syſt. nat.* XII. 3. *p.* 58. *n.* 4. Mica ſquamoſa rigidula aurata.

Cronſt. miner. §. 95. 2. Mica ſquamoſa martialis.

Habitat, tanquam pars conſtituens, in granite *multiſque aliis ſexis, metalico cupri, argenti auri nitore non raro aliae innumeris flavi, rubri, fuſci, nigri, cinerei, viridis coloris varietatibus conſpicua.*

undulata. 4. M. lamellis undulatis aureis.

Syſt. nat. XII. 3. *p.* 60. *n.* 10. Mica flexuoſo-undulata; ſquamis auricoloribus.

Waller. miner. 124. Mica particulis fluctuantibus.

Waller. ſyſt. miner. 1. *p.* 372. *n.* 4. b. c. Mica fiſſilis, lamellis fluctuantibus & Mica fiſſilis, lamellis reflexis.

β) *Syſt. nat.* I. *p.* 155. *n.* 5. Mica particulis lamellatis, ad angulum acutum ſtriatis.

Syſt. nat. XII. 3. *p.* 59. *n.* 6. Mica (hungarica) lamellis flexuoſis fragilibus auratis.

Woltersd. min. 17. Talcum molliuſculum friabile, colore aureo.

Wall. min. 128. Talcum luteum, lamellis opacis, fragiliſſimum.
Waller. ſyſt. miner. 1. *p.* 375. *n.* 9. Talcum luteum, lamellis flexuoſis opacis friabilliſſimum.
Carth. min. 15. Talcum lamellis opacis rigidis luteis.
Habitat in Dalecarliæ *fodinis* β) *in* Dalecarlia.

hemiſphærica. 5. M. lamellis hemiſphæricis concentricis.
Syſt. nat. XII. 3. *p.* 59. *n.* 8. Mica ſquamis hemiſphæricis.
Waller. miner. 125. *ſyſt. miner.* 1. *p.* 373. *n.* 6. Mica hemiſphærica.
Habitat in Finlandiæ parœcia Kimito, *ſaxi fatiſcentis partem conſtituens, nitidiſſima, alba, ſemen piſi dimidiatum magnitudine & figura referens.*

ſtriata. 6. M. lamellis in radios tranſeuntibus.
Waller. ſyſt. miner. 1. *p.* 372. *n.* 5. Mica particulis oblongis tenuioribus acuminatis.
Cronſt. §. 94. 3. Mica particulis aceroſis.
Habitat in Sueciæ *ſaxis, cinerea vel nigra, igne albeſcens vel flaveſcens hornblendæ accedens.*

cryſtallina. 7. M. tabulis hexaëdris.
Syſt. nat. XII. 3. *p.* 60. *n.* 9. Mica ſquamis erectis paſſim triquetro-conniventibus.
Cronſt. miner. §. 95. 5. Mica druſica.
Waller. ſyſt. miner. 1. *p.* 373. *n.* 7. Mica figura determinata druſica.
Habitat in Dalecarliæ *fodinis, in* Sahlbergenſi, Zinnwaldenſi, *tabulis nunc ſparſis, nunc ſtellatim aggregatis, nunc in columnas diſpoſitis.*

priſmatica. 8. M. fuſca priſmatibus enneadris
Klaproth bergm. Journ. 1790. 9. *p.* 227.
Hoffm. bergm. Journ. 1789. 1. *p.* 156.
Habitat in fodina Schneebergenſi Saxoniæ, Pini *prope* Aue *ſaxo ex quartzo & feldſpato compoſito innidulans, opaca intus parum nitens.*

37. **OPALUS.** Ex terra aluminari & plurima ſilicea cum pauca ferri calce conſtans, cui interdum pauxillum magneſiæ albæ aut terræ calcariæ accedit.

Duriuſculus, nitens, vix unquam opacus, texturæ conchoideæ, levis, in fragmenta indeterminata diſſiliens; paraſiticus, formæ utplurimum communis, *facile rimas agens.*

Igne difficilime liquandus.

hydrophanus. Weltauge. 1. O. ſubopacus in liquidis pellucidus coloremque mutans, linguæ adhærens.

Syſt. nat. XII. 3. *p.* 69. *n.* 6. *δ. Wall. miner.* 83. *ſyſt. min.* 1. *p.* 283. *n.* 21: Achates unguium colore in aëre opaca aqua pellucens.

Brückmann von dem Weltauge oder Lapide mutabilli. *Brunsv.* 1777.

Liebenroth ub. Nat. u. Menſch verm. mineral. Gegenſt. in Sachſ. 2. *Samml.* §. 28. *p.* 49.

Habitat in inſularum Feroenſium, Iſlandiæ, Britanniæ, Hetruriæ, Hungariæ, Sileſiæ, Poloniæ, Saxoniæ, (*præſertim prope* Hubertsburg,) Goettingiæ *piceis, nobilibus, vulgaribus & vilioribus, chalcedoniis, praſiis, chryſopraſiis, nephritico, ſerpentino, granite jaſpide, porphyrio argilla indurata, albus, eburneus, ochroleucus, vitellinus, ruſeſcens aut vireſcens, rarius, ſi unquam, pyramidis triaedræ formæ comparens.*

piceus. Pechſtein. 2. O. nitoris cerei, texturæ imperfectius conchaceæ.

Habitat, rarius aut nunquam magnam montium partem conſtituens, quam aliis foſſilibus, magnis ſæpe, maſſis innidulans in inſulis Iſlandia, Elba, *in* Gallia *prope* Meſnil-Montant, *etiam in* Alvernia. Forez, Britannia (*prope* Pompeen,) Bavaria (*prope* Qizersdorf,) *in* Tranſilvania (*prope* Hermanſtadt. Szent-Irnæ & Nagyag,) *in* Hungaria, (*prope* Boinik, Koenigsberg, Schemniz, Cremniz, Jacobian, inter Eperias & Tokai, & *in valle* Siroka,) *in montibus* giganteis *in* Saxonia (*prope*

Miſenam Dresdam & Pleniz,) nova Hiſpania *infumatus, ex cinereo niger, ex vireſcente fuſcus, olivaceus, gramineus, pſittacinus, cæruleſcens, cæruleus, aut ruber, diaphanus, ſemipellucidus, aut ſubopacus, ſegmentis, in quæ ſponte ſecedit, granulatis, interdum ligni fragmenta includens.*

ligneus. 3. O. ſubopacus logitudinaliter diffractus fibroſam texturam monſtrans in fragmenta cruſtoſa ſponte ſecedens.
Karſt. Lesk. mineralkab. I. *p.* 170. Holzopal.

Habitat maſſis utplurimum ingentibus in comitatu Hungariæ Liptovienſi, *facile in fragmenta, nonnunquam in feſtucas longas diſſiliens, interdum opacus, rarius diaphanus, fibris utplurimum rectis, cruſtis, in quas ſponte ſecedit craſſis, nunc rectis, nunc incurvis, crebrius ſtriatus quam unicolor, lacteus, ex ruſeſcente albus, ochroleucus, ex flaveſcente cinereus, fuſci capillorum aut caryophyllorum aut in luteum vergatis coloris, ochraceus vel hyacinthinus.*

cereus. 4. O. ſemipellucidus levis flavus, texturæ perfecte conchaceæ.
Werner in Cronſt. Mineral. §. 55. *p.* 122.
v. Fichtel Karpath. p. 408.
Habitat fruſtis rotundatis jaſpidis ſæpe & argillæ induratæ inhærens Polonia *prope* Radomiſchel *in* Hungaria *ſuperiori prope* Telkobanya, *flavedine propius nunc ad ceream, nunc ad melleam accedente, nunc pauliſper infuſcum colorem vergente; fragilis, intus valde nitens, fragmentis, in quæ diſſilit acutis, interdum ferre diſcoideis.*

vilior. 5. O. durus levinſculus facile diſſiliens in fragmenta acuta.
Karſt. Lesk. Mineralkab. I. *p.* 168.

Habitat in Polonia *prope* Radomiſchel, Sileſia *prope* Coſemütz Bohemia, Hungaria (*prope* Teſcherwveniza & Telkobania,) Auſtria (*prope* Primerſtorf,) Saxonia (*prope* Freyberg, Eibenſtock & Johanngeorgenſtadt,) & *prope* Francofurtum *ad* Moenum (*ad* Aveſtein,) *diaphanus vel ſubopacus, rarius opacus rariſſime pellucidus, texturæ nunc magis, nunc minus perfecte conchaceæ, nitoris nunc majoris nunc minoris utplurimum vitrei, colorum albi, cinerei, viridis, fuſci, rubri nigri, varietate magnæ conſpicuus, interdum maculoſus.*

6. O.

Vulgaris. 6. O. colorem pro ſitu ad lucem varians duriuſculus leviuſculus diaphanus, fragmentis in quæ diſſilit, obtuſiuſculis.

Syſt. nat. XII. 3. *p.* 68. *n.* 6. α. Silex vagus reflexione et refractione varians, albus.

Waller. miner. 82. Achates fere pellucida, colores pro ſitu ſpectatoris mutans.

Waller. ſyſt. miner. I. *p.* 280. *n.* 19. Achates fere pellucida colores ſub refractione et reflectione varians.

Habitat utplurimum aliis lapidibus inhærens, et formæ communis, rarius reniformis aut botryoides, in Polonia (*prope* Radomiſchel,) *in* Silesia (*prope* Cosemitz *et* Schwentich), *in* Saxonia (*prope* Johanngeorgenſtadt, Eibenſtock, Schneeberg *et* Freyberg,) *prope* Francofurtum *ad* Moenum, Hungaria(*prope* Tſcherweniza,) *heic interdum lichenes includens, in* Islandia *et insulis* Feroe, *intus utplurimum parum nitens, interdum ſuboracus, lacteus, ochroleucus, ex flaveſcenti aut vireſcenti cinereus rarius porraceus olivaceus aut rubellus, aquæ guttam interdum includens, rarius texturæ in planam vergentis, aut matris perlarum inſtar nitens aut punctis quaſi argenteis micans.*

Nobilis. 7. O. ſemipellucidus intus valde nitens levis duriuſculus colore vivaci pro ſitu ad lucem vario, fragmentis in quæ diſſilit acutis.

Syſt. nat. XII. 3. *p.* 68. *n.* 6. β. Opalus Pæderota.

Plinius hiſt. mund. 37. *c.* 6. *Haſſelq. it* 508. *Cronſt. miner.* §. 55. a. Opalus Nonnii.

Waller. ſyſt. miner. I. *p.* 281. *n.* 19. b. Opalus colore olivari, reflexione ruber.

Johann. apocal. 21. 11. Lapis præſtantiſſimus Jaſpis.

Habitat ad radicem montium Carpathicorum *in* Hungaria *prope* Tſcherweniza, *argillæ ferriferæ incluſus, heic jam anno* 1400 *erutus, rarior in* Saxonia *prope* Freyberg, *utplurimum lacteus luci recta obverſus flavus, oblique eam recipiens viridis, flavus, ruber aut cæruleus, ſæpius fere pellucidus, rarius fere diaphanus, rariſſime vermen includens.*

38. ZEOLITHUS. Ex terra aluminari pauca et plurima ſilicea conſtans, quibus aliquid terræ calcariæ et pauxillum calcis ferreæ et aquæ accedit.

Leviuſculus, in fragmenta (utplurimum) indeterminata diſſiliens, paraſiticus, fragmentis in quæ ſponte ſecedit granularibus.

Aqua forti ſine efferveſcentia ſolubilis, et cum ea in gelatinæ ſpeciem ſæpe abiens igne cum ebullitione facile liquandus in vitrum album, initio ſpongioſum, aquæ ſupernatans et primo fluxus momento ſplendorem emittens.

farinaceus. 1. Z. albus friabilis.
Knoch Beytr. zu chem. Annal. 2. *p.* 20.
Habitat in Iſlandia et Hercynia (*prope* Andreasberg,) *ex fatiſcentia congenerum natus.*

lamelloſus. 2. Z. ſolidus intus nitens ruſeſcens diaphanus lamelloſus, lamellis undulatis fragilibus.
Kenoch Beytr. chem. Annal. 2. *p.* 27. *f.* 17. 18. 19.
Rinman. nov. act. Stockh. 5. *ad* 1784. 1. *p.* 52. Gäſten.
Habitat in Oſtrogothia et Iſlandia, *interdum in fragmenta craſſoſa ſecedens, duriuſculus.*

radiatus. 3. Z. ſolidus matris perlarum inſtar nitens radiatus, radiis convergentibus.
Cronſt. miner. §. 111. 3. A. Chryſtalli zeolitis pyramidales concretæ ad centrum tendentes.
Waller. ſyſt. miner. 1. *p.* 313. *n.* 9. Zeolites facie ſelenitica lamellaris.

Habitat in Iſlandia *inſulis* Feroë, Lapponia, Jemptia *et* Hercynia, *radiis nunc ſtellatis, nunc faſciculatis, albus aut flavus, duriuſculus.*

fibroſus. 4. Z. ſolidus matris perlarum inſtar nitens fibroſus, fibris convergentibus.
Cronſt. miner. §. 110. Zeolites ſpatoſus.
Waller. ſyſt. miner. 1. *p.* 311. *n.* 2. Zeolites particulis minoribus, granularis mollior.
Vogel miner. 189. *Act. Stockh.* 1756. *p.* 120. Zeolitus.
Habitat in Iſlandiæ lavis, *frequens chalcedonii comes, in* Scotiæ, Haſſiæ, Thuringiæ, Galliæ baſaltis, *rarior in* Hercynia, *utplurimum albus, rarius rubellus, fuſceſcens, flavus aut cinereus, fibris tenuioribus aut craſſioribus, nunc faſciculatis, nunc ſtelliatis et in globi magis minuſve perfecti formam non raro aggregatis, diaphanus, rarius ſemipellucidus, duriuſculus.*

ſtillatitius. 5. Z. ſolidus ſubcylindricus rufeſcens.
Syſt. nat. XII. 3. *p.* 185. *n.* 12. Stalactites (zeolithus) ſpatoſus rufeſcens.
Habitat paſſim in rupium rimis. *An diſtincta ſpecies?*

clavatus. 6. Z. ſolidus diaphanus matris perlarum inſtar nitens ſulcatus clavæ forma.
Knoch. Beytr. chem. Annal. 2. *p.* 17. *f.* 6. 8.
Habitat gregarius in inſulis Feroë, Iſlandia, Jemtia, Hercynia, *heic argento rubro & ſpati ſpeciebus variis inſidens, lacteus, rarius flavicans.*

tabularis. 7. Z. ſolidus ſemipellucidus duriuſculus matris perlarum inſtar nitens, tabulis hexaëdris.
Fiſchtel Karpath. p. 660.
Knoch Beytr. chem Annal. 2. *p.* 16. *f.* 1. 3. 4. 5.
Habitat in Iſlandia, Hercynia, Tranſilvania, *rarius lacteus aut ruber quam ex cæruleſcenti albus, utplurimum faciebus brevioribus ſingulis in binos rhumbos terminatis.*

cubicus. 8. Z. albus ſolidus ſubpellucidus duriuſculus matris perlarum inſtar nitens, cubis exilibus aggregatis.
Habitat in inſulis Feroë, Iſlandia, Luſatiæ *ſuperioris (ad montem* Lauſche) *baſalta.*

priſmaticus. 9. Z. albus pellucidus nitens duriuſculus, priſmatibus tetraëdris.

α) priſmatibus rectangulis.
a) perfectis.
Cronſt. miner. §. 111. B. Criſtalli zeolitis diſtinctæ figura priſmatica truncata.
b) utrinque in aciem terminatis. *Knoch Beytr. z. chem. Annal.* 2. *p.* 133.
c) pyramide tetraëdra terminatis. *Karſt. Leſk. Mineralkab.* 1. *p.* 133.
d) æquilateris.
e) compreſſis. *Karſt. Leſk. Mineralkab.* 1. *p.* 133.
a) cruciatim ſe perforantibus. *Karſt. Leſk. Mineralkab.* 1. *p.* 133.
f) aggregatis.
a) faſciculatim.
b) ſtellatim.
β) priſmatibus obliquangulis.
Habitat in inſulis Feroë, Iſlandia, b. c. (e a) *in* Hercynia, a) *in* Jemtia, *priſmatibus interdum minutis.*

capillaris. 10. Z. niveus nitens duriuſculus, pyramidibus capillaribus. *Cronſt. miner.* §. 111. C. Criſtalli Zeolitis capillares.
α) pyramidibus ſegregatis.
β) pyramidibus faſciculatim congeſtis.
Habitat in inſulis Feroë, Jemtia, *baſalte* Iſenacenſi.

ſcintillans. 11. Z. durus nitens. *Bergm. chem. Annal.* 1784. 2. *p.* 392. *Groſchke Bergbauk.* 1. *p.* 398.
a) formæ communis.
b) ſuperficiebus ſphæricis inæqualis.
c) priſmatibus perfectis hexaëdris, faciebus convexis.
Habitat in Suecia *rarior prope* Edelfors, *etiam in* Weſtrogothiæ *et* Scotiæ *baſaltis prope* Edinum *et* Dumbarton, γ) *prope* Strontian *rarius fibroſus aut radiatus, quam compactus, albus, canus iſabellinus aut ruber, egregiam polituram admittens.*

viridis. 12. Z. pomaceus durus ſemipellucidus texturæ partim lamelloſæ partim radiatæ.
Claproth. Schr. berl. Naturf. 8. *p.* 217. *Haſſenfratz journ. de phyſ.* 1788. *Febr. p.* 81. *Werner bergm. Journ.* 1790. 1. *p.* 99. Prehnit.
Sage journ. de phyſ. 1789. *Jun. p.* 447. Chryſolithe du cap de Bonne-Eſpérance.
Hacquet Schr. berl. Naturf. 4. *p.* 25. *t.* 3. *f.* 17. Kriſtalliſirter Praſer.

α) formæ communis.
β) forma priſmatis tetraëdri compreſſi.
Habitat ad Caput Bonæ-Spei *&* (*prope* Dunglaſs) *in* Scotia, *polituram egregie admittens*, *interdum in porraceum aut olivaceum colorem vergens*, *formæ communis aut cryſtallorum utplurimum exilium nitidarum*, *rarius prismatum rectangulorum tetraëdrorum utrinque in aciem terminatorum quam tabularum*, *aut hexaëdrarum*, *aut crebrius tetraëdrarum obliquangularum*, *ad margines terminales ſæpe truncatarum*, *frequentius in tabulas tetraëdras*, *faſciculos*, *farciminum ſpeciem aggregatarum quam ſolitariarum*, *tranſverſim fractus minutim granulatus*, *in fragmenta granularia*, *rarius in bacillos ſecedens*.

columnaris. 13. Z. priſmaticus transverſe ſtriatus longitudinaliter diffractus, texturæ fibroſæ transverſim lamelloſæ.
v. Fichtel & Bindheim Schr. berl. Naturf. 3. *p.* 447, &c. 452, &c.
Habitat (*prope* Schebeſch) *in* Tranſilvaniæ *marmore micante ſparſus*, *priſmatibus nunc ſolitariis*, *nunc aggregatis*, *nunc tetraëdris*, *nunc hexaëdris*, *utplurimum albis*, *rarius cæruleſcentibus*, *thalaſſinis aut ſtramineis*, *majorem longe quam congeneres* ($\frac{1}{60}$) *terræ calcariæ*, *minorem aluminaris continentibus*.

Cyanites. 14. Z. fragilimus diaphanus nitens ponderoſus duriuſculus transverſim ad chalybem ſcintillans in feſtucas longas diſſiliens, texturæ lamelloſo-radiatæ. *Werner. bergm. Journ.* 1790. I. *p.* 164.
Sauſſure fil. journ. de phyſ. 1789. *Mart. p.* 213. *& Sage Jul. p.* 39. Sapparre.
Hoffmann bergm. Journ. 1789. I. *p.* 29. Cyanit.
v. Born ind. foſſ. I. *p.* 33. Baſaltes cæruleus.
v. Born Briefe üb min. Gegenſt. 7. *p.* 39. *Ferb. n. Beytr. z. Mineralg.* I. *p.* 106. *&* 3. *mineralog. Briefe p.* 46. *Stütz Abh. der boehm. Privatgeſ.* 3. *p.* 332. Blauer Schoerl.
Herrmann chem. Annal. 1789. I. *p.* 224. Aquamarin-farbiger Schoerl.
Habitat in montium Carpathicorum *ramo*, Wallachiam *a* Tranſilvania *ſeparante*, *ad montem* S. Gotthardi Helvetiæ, *in provincia* Lugdunenſi (*prope* Symphorian) Galliæ, *in* Hiſpania, Scotia, Tiroli (*ad montem* Greiner,) *in* Auſtria (*prope* Meiſſau.) *in* bannatu Temeſienſi. (*prope* Saska,) *in montibus* Nert-

ſchinsk Sibiriæ, *in* Saxonia (*prope* Geyer,) *ad* Rheni *ripas prope* Andernacum, *in fragmenta cruſtoſa, interdum in granularia aggregata, ſecedens, colore cœleſti intermiſto albidus vel cinereus, lamellis incurvis, frequentius radiis utrisque ſemipellucidis conſtans, his tenuiſſimis, ſparſis, parallelis aut faſciculatis, & majori duritie, & faciliori in igne fluxu a mica & talco ſatis diſtinctus.*

conglomeratus. 15. Z. granulis in quæ ſecedit lævigatis vitrei nitoris concentrice cruſtoſis.
v. Fitchel Karpath. p. 365. 648.
Habitat in collibus, *monti* Hungariæ Pap-Laſſo *vicinis, magnas maſſas conſtituens, jaſpidis venis exaratus. An hujus generis?*

combuſtus. 16. Z. poroſus. *v. Fichtel Karpath. p.* 357. 647. 653.
Habitat in Hungariæ *monte* Schator. *An ex granite liquato natus, albidus aut nigricans?*

quartzoſus. 17. Z. nigricans texturæ æquabilis in fragmenta acuta diſſiliens nitoris pinguis. *v. Fichtel Karpath. p.* 652.
Habitat in Hungaria *prope* Talkobanga *integrum montem conſtituens.*

varius. 18. Z. texturæ vitræ nitoris pinguis nigricans, granulis albis immerſis. *v. Fichtel Beytr. p.* 657.
Habitat in Hungaria *prope* Glashütte. *An hujus generis diſtincta ſpecies?*

argenteus. 19. Z. diaphanus rimoſus coloris argentei. *v. Fichtel Karpath. p.* 659.
Habitat vagus in Hungaria *prope* Peklin.

bohemicus. 20. Z. lamelloſus igne non efferveſcens ſed in vitrum pellucidum confluens. *Fichtel Karpath. p.* 662.
Habitat in Bohemia *prope* Kunyetiz, *inter* Kœniggraez & Pardubiz, *amygdalitæ innidulans.*

39. SCORLUS. Ex terra aluminari & ſilicea, calcaria & utplurimum calce ferrea conflatus, quibus interdum aliquid magneſiæ albæ & nigræ accedit.

Durus, in fragmenta indeterminata diſſiliens, intus nitens, paraſiticus.

Cum aqua forti non efferveſcens, igne facile in vitrum abiens.

granatinus. 1. Sc. albus duriuſculus difficilius igne fundendus facile fatiſcens.

Givani litolog. Veſuv. p. 38. Granati vianchi di Napoli.

T. Bergman de prod. vulcan. opuſc. vol. 3. *p.* 206.

Habitat in Veſuvii *potiſſimum lavis, marmoribus aliisque granatum facie externa æmulans, at ferri expers, nunc vitri inſtar pellucidus, nunc opacus.*

vitreus. 2. Sc. fragilis nitens texturæ minutim conchaceæ facile cum ſpuma liquandus.

Klaproth Mag. für Helv. Naturk. 1. *p.* 180. Violetter Schoerl.

Hoffmann bergm. Journ. 1788. 1. *p.* 54. 261. Thumer Stein.

α) formæ communis diaphanus aut ſubopacus in fragmenta cruſtoſa ſponte ſecedens.

β) cryſtallis nitidiſſimis pellucidis vel ſemipellucidis ſubprismaticis, faciebus rhomboidalibus utplurimum longitudinaliter ſtriatis.

Habitat in Saxonia *prope* Thum & Schneeberg, *in* Delphinatu *prope* Bourg d'Oiſans, Armentieres & Balme d'Auris, *in montibus* Pyrenæis *prope* Bareges, *in* Norwegia *prope* Kongsberg, *utplurimum caryophyllinus, colore nunc magis in rubrum, nunc magis in violaceum, nunc potius in nigrum vergente, rarius margaritaceus aut ex vireſcente cinereus, leviuſculus.*

tabularis. 3. Sc. canus ſemipellucidus, tabulis tenuiſſimis tetraëdris in tabulas craſſiores aggregatis. *Hoffm. bergm. Journ.* 1788. 1. *p.* 57.

Habitat una cum vitreo in Delphinatu *prope* Bourg d'Oiſans, *compactus*, *ſubnitidus*, *intus parum micans*, *texturæ ad planam accedentis*, *tabularum faciebus lateralibus cylindrico concavis*, *terminalibus utplurimum ſubconvexis.*

genuinus. Stangenſchoerl. 4. Sc. ponderoſus opacus niger, tritura dilute cinerea.
Syſt. nat. I. *p.* 181. *n.* 2. Stannum cryſtallis columnaribus nigris.
Syſt. nat. XII. 3. *p.* 95. *n.* 3. Borax (Baſaltes) lapidoſus columnaris politus, pyramidibus triquetris.
Cronſt. min. §. 75. 4. Baſaltes cryſtalliſatus.
Wall. min. ſp. 139. Corneus cryſtalliſatus priſmaticus, lateribus inordinatis.
Wall. ſyſt. min. 1. *p.* 319. *n.* 2. Baſaltes figura columnari, lateribus inordinatis, cryſtalliſatus.
Habitat in Zeylonæ, Madagaſcariæ, Hiſpaniæ, Italiæ, Sabaudiæ, Vallis Tellinæ, Rhetiæ, Helvetiæ, Galliæ & *montium potiſſimum* Pyrenæorum, Cornubiæ, Groenlandiæ, Norwegiæ, Sueciæ, Sileſiæ, Moraviæ, Hungariæ, Saxoniæ, Herciniæ *lavis*, *granitis*, *gneiſſis variis*, *aqua forti fere totus ſolvendus*, *ferro interdum adeo dives*, *ut magneti admotus ejus directionem mutet*, *nunc formæ communis*, *in fragmenta granularia*, *frequentius*, & *tum etiam facilius in bacillos tenues*, *rectos parallele*, *faſciculatim aut ſtellatim ſecedens*, *nunc forma cryſtallorum*, *rarius granatos mentientium quam priſmatum*, *quæ longitudinaliter ſtriata*, *rariſſime acicularia*, *vulgo mediæ*, *rarius inſignis magnitudinis*, *crebrius triedra aut enneædra*, *utrinque utplurimum in pyramidem triedram terminata quam hexaedra apparent.*

electricus. Turmalin. 5. Sc. excalefactus corpuſcula levia altero fine attrahens altero excutiens.
Syſtem. nat. XII. 3. *p.* 72. *n.* 4. Borax diaphanus ſubopacus purpureus maxime electricus.
Wall. ſyſt. miner. 1. *p.* 315. *n.* 6. Zeolites facie vitrea, calefactus cineres aliaque levia corpora attrahens & repellens, electricus.
Act. pariſ. 1717. *p.* 9. *Flor. zeyl.* 8. *Act. berol.* 1756. *p.* 105. Lapis electricus.
Vogel min 191. *Act. Stockh.* 1768. *p.* 7. Aſchendreker, Trip, Tourmalin.
Habit. in Zeylonæ *fluviis*, Braſilia, Caſtilia, *inſulis* Galliæ *vicinis*, *in* Groenlandia *montibus* Ural & Nertſchinsk,

Sibiriæ, *montibus* Norwegiæ, Sueciæ, Helvetiæ (Grimſel & S. Gotthardi,) & Germaniæ e. g. *in monte* Greiner, *prope* Francofurtum *ad* Mœnum, *prope* Selb *in* Franconia, *prope* Ehrenfriedersdorf, Annaberg, Dorſchemniz & Freyberg *in* Saxonia, *gneiſſo aliisque ſaxi ſpeciebus innidulans, a quibus ſæpe avulſus, & aquarum vi deletis angulis ad fluviorum ripas granorum forma dimittitur, alias priſmatibus tenuibus ſæpe longitudinaliter ſtriatis pyramide tetraëdra terminatis tri-vel enneædris, rarius tetraëdris, hexaedris aut heptaedris, rarius quoque formæ communis in bacillos ſecedens, ſubponderoſus, texturæ conchaceæ, ut plurimum pellucidus & valde nitens, hinc gemmæ loco habitus, quamvis duritie plurimis ejus ſpeciebus inferior, interdum diaphanus coloris creberrime obſcuri, fuſci aut viridis, rarius rubri, cærulei aut flavi, igne difficilius liquandus, æquabiliter excalefactus favillæ pulviſculos altera parte attrahens, altera repellens, altera excalefactus, altera refrigeratus utraque attrahens*, P.Hermanno, *quum in* Zeylona *commoraretur, jam cognitus, ponderis ſpecifici* = 3086 *ad* 3155 : 1000.

ORDO V.

TERRÆ SILICEÆ.

Ex terra ſilicea præſertim conflatæ, duræ.

40. GEMMA. Ex terra ſilicea & aluminaris ſæpe paulo majori portione conflata, quibus utplurimum aliquid terræ calcariæ & calcis ferreæ accedit.

Macer, intus valde nitens, rariſſime opacus vel ſubopacus, nunquam duriuſculus aut mollis, in fragmenta indeterminata diſſiliens, paraſitica, in tenebris lucens, frictione excalefacta corpuſcula leviora trahens.

Alcali igne liquato non ſolvenda.

Rubinus. 1. G. duriſſima ponderoſa rubra texturæ lamelloſæ, directione mutata conchaceæ, coloris in igne & tritura tenaciſſima, priori non liquanda.

Syſt. nat. I. *p.* 165. *n.* 6. XII. 3. *p.* 102. *n.* 6. *β. Muſ. Teſſin.* 38. *n.* 3. Alumen (gemma pretioſa rubinus) lapidoſum pellucidiſſimum ſolidiſſimum rubrum.

Cronſt. min. §. 43. *β.* Adamas ruber.

Wall. min. 111. *ſyſt. min.* 1. *p.* 235. *n.* 2. Gemma pellucidiſſima duritie ſecunda, colore rubro in igne permanente.

Juſt. miner. 377. *Vogel min.* 143. *Baum. min.* 1. *p.* 229. Rubinus.

Habitat in Braſilia *&* Oriente, *potiſſimum regnis* Pegu *&* Zeylon, *duritie ſpatum fere triplo ſuperans, calcariæ terræ & calcis ferreæ aliquid quoque continens, poſt adamantem inter gemmas pretioſiſſima, colore nunc pallidiori, nunc magis ſaturato ceraſino aut in violaceum vergente, rarius dilute roſeo aut ex rubro & albo miſto, ſtriisque flavis vario, aut partim rubro partim cæruleo rariſſime in vireſcentem vergente, aut variabili, forma priſmatis tetraedri aut tabulæ tri-*

dræ, faciebus terminalibus in aciem exeuntibus, aut pyramidis triedræ ſimplicis, crebrius tetraedræ duplicis, ad margines interdum truncatæ, ſæpe quoque angulis aquæ vi detritis forma granorum rotundatorum, ſæpe pellucidus, rarius ſemipellucidus aut opacus.

Saphirus. 2. G. duriſſima ſubponderoſa cærulea tritura alba texturæ ſubincurvo-lamelloſæ, igne non fundenda, at colorem omnem exuens.

Syſt. nat. XII. 3. *p.* 103. *n.* 6. γ. Alumen lapidoſum pellucidiſſimum ſolidiſſimum cæruleum.

Cronſt. miner. §. 44. *Juſt. miner.* 378. *Baum. miner.* I. *p.* 230.

Vogel. min. 146. Saphirus.

Waller. min. 112. Gemma pellucidiſſima, duritie tertia, colore cyaneo igne fugaci.

Wall. ſyſt. min. I. *p.* 237. *n.* 3. Gemma pellucidiſſima, duritie tertia, colore cæruleo in igne forti fugaci.

Habitat poſt rubinum pretioſiſſima & duriſſima in Braſilia, *in* India, *potiſſimum regnis* Pegu & Zeylon, *ad* Perſicos *fines regni* Ruſſici, *in* Bohemia (*inter* Bilin & Merowiz) & *in* Galliæ *provincia* Velay (*prope* Puy,) *utplurimum libera & angulis detritis rotundata in fluviis eorumque ripis, arena, humo, rarius aliis foſſilibus adnata, & tum forma cryſtallorum transverſe ſtriatorum, nunc priſmatum hexaedrorum rectangulorum aut tetraedrorum obliquangulorum inæquilaterorum, crebrius pyramidum hexaedrarum ſimplicium vel duplicium, nunc pellucida & æquabiliter tincta nunc ſemipellucida, nunc diaphana, nunc nubeculis albis turbida, in igne una cum colore evanidis (quo caſu ſæpe pro adamante venit, duritie tamen longe inferior, per uſtionem adhuc magis imminuta,) colore nunc æquabili, nunc in cryſtallis præſertim, apicem verſus magis diluto, nunc ſaturatiori magis & puriori berolinenſi, indico violaceo aut lazureo, nunc dilutiori in viridem, flaveſcentem, cinereum, album vergente, nunc pro vario ad lumen ſitu variabili, ſemper aliquid terræ calcariæ & pauxillum calcis ferreæ continens, dum ignis vim experitur, lumen egregium ſpargens.*

Topazius. 3. G. ſubduriſſima ponderoſa flava textura lamelloſa transverſim fractæ conchacea, igne non fundenda, at fortiore colorem omnem exuens.

Syſt. nat. XII. 3. *p.*94. 2. *α.* Borax(gemma nobilis Topazius)lapidoſus priſmaticus pellucidus,pyramidibus truncatis flava.

Muſ. Teſſ. 32. *n.* 14. Nitrum quartzoſum coloratum.

Cronſt. miner. §. 45. *Juſt. miner.* 381. *Vogel miner.* 141. *Baum. min.* 1. *p.* 232. Topazius.

Wall. ſyſt. min. 1. *p.* 139. *n.* 4. Gemma pellucidiſſima, duritie quarta, colore aureo in igne fugaci.

Habitat rarius libera & angulis detritis rotundata quam aliis mineralibus adhuc inhærens & adhærens ac nativæ formæ adhuc particeps, in Sibiriæ *montibus* Uralenſibus & Nertſchinskenſibus, *etiam ad* Perſicos *fines imperii* Ruſſici, *in* India *& vicinis inſulis,præſertim* Zeylona, *in* Braſilia,Sileſia *(prope* Strigonium,*)*Bohemia*(inter* Bilin & Merowiz,*) & potiſſimum* Saxonia *(prope* Zinnwalde, Altenberg, Ehrenfriedersdorf & Auersbach,*) formæ interdum communis,tum in fragmenta granularia ſecedentis crebro priſmaticæ, priſmatibus longitudinaliter ſtriatis nunc ſolitariis, nunc geminis aut ternis cruciatim diſpoſitis, nunc aggregatis, rarius tetraedris rectangulis vel obliquangulis quam octaedris inæquilateris, pyramide irregulari raro octaedra, (braſil. tetraedra)aut (ſibirica) in aciem terminatis nunc pellucidis,nunc ſemipellucidis, nunc diaphanis, interdum ſat inſignibus, flavedine modo dilutiore, modo ſaturatiore, utplurimum vini colorem mentiente, at etiam in album cinereum, vireſcentem, & viridem colorem ipſum vergente,leniori ignis vi in ruborem aliquando abeuntem, ut rubinum ſimulet, ponderis ſpecifici* = 3531 *ad* 3564 : 1000.

Hyacinthus. 4. G. dura lamelloſa pellucida rubedinis ſibi propria priſmatibus tetraedris utrinque pyramide tetraedra terminatis, igne non fundenda colorem amittens.

Syſt. nat. XII. 3. *p.* 85. *n.* 3. *α.* Nitrum lapidoſum quartzoſum octdecaedrum purpureo-fulvum.

Wall. ſyſt. min. 1. *p.* 240. *n.* 4. i. Topazius flave rubens.

Juſt. min. 385. *Vogel min.* 145. *Baum. miner.* 1. *p.* 235. Hyacinthus verus.

T. Bergm. de terr. gemm. §. 7. *de tub. ferrum.* §. 17. *opuſc.* 2. *p.* 103. 104. 476. 478. 480. Hyacinthus.

Reuſs Orogr. des boehm. Mitteſſ. p. 148.

Habitat in Oriente & Bohemia, *ejusdem cum topazio duritiei, at minorem terræ ſiliceæ, majorem* ($\frac{2}{5}$) *aluminaris, calcariæ* ($\frac{1}{5}$) *&* ($\frac{13}{100}$) *calcis ferreæ continens, ponderis ſpecifici* = 3687 *ad* 3760 : 1000.

alabandica. 5. G. dura pellucida, colore rubro in igne fugaci, igne non fundenda.
Ferber n. Beytr. Z. Mineralg. 1. *p.* 585.
Habitat in Variſciæ *fluvio* Goetſch *prope* Lengefeld, *forma granorum rotundatorum, magnitudine ſeminis piſi aut fabæ, uſtione dealbata hinc inde pro adamante venalis.*

Rubicellus. 6. G. dura, coloris ex rubello in luteum vergentis in igne fugacis, igne non fundenda.
Waller. ſyſt. miner. 1. *p.* 236. *n.* 2. d. Rubinus colore rubeo ſubflavo.
Habitat in India, *topazio mollior, coloris impuri minus grati.*

Spinellus. 7. G. dura coloris rubri, tritura rubella igne non fundenda.
Waller. ſyſt. miner. 1. *p.* 236. *n.* 2. c. Rubinus colore rubeo ſubalbo.
Klapr. Schr. berl. Naturf. 9. *p.* 340.
Habitat in India, *coloris ſæpe amœni non raro punicei, tum magni æſtimata, pondere ſpecifico rubino inferior, topazio mollior, ultra* $\frac{1}{3}$ *terræ aluminaris, pauxillum calcis ferreaæ, & pauciſſimam terram calcariam continens.*

Aqua marina. 8. G. dura pellucida lamelloſa dilute thalaſſina igne non fundenda, in fragmenta trapezoïdea diſſiliens.
Syſt. nat. XII. 3. *p.* 95. *n.* 2. γ. Borax lapidoſus priſmaticus pellucidus, pyramidibus truncatis cæruleo-virens.
Cronſt. miner. §. 47. *n.* 1. Aqua marina.
Vogel. miner. 146. Beryllus aqua marina.
Waller. ſyſt. miner. 1. *p.* 242. *n.* 5. c. Smaragdus cæruleo viridescente colore.
Habitat in Braſilia, India, *montibus* Sibiriæ Nertſchinſkenſibus, *in* Saxonia (*prope* Schneeberg *et* Eibenſtock) *et in* Bohemia (*prope* Greſniz) *topazio proxime affinis, nunc formæ communis, in fragmenta cruſtoſa ſecedens, nunc cryſtallorum, topazii cryſtallis ſimilium, ponderis ſpecifici* = 3521 *ad* 3548 : 1000.

Scorlites. 9. G. ſubdura ſubponderoſa diaphana coloris ex vireſcente aut flaveſcente albi in igne conſtantis, in igne non fundenda.
Wern. Ueberſ. v. Cronſt. Miner. p. 169. Weiſſer Stangenſchlœrl.
T. Bergm. chem. Annal. 1784. 2. *p.* 391. Weiſſer Schœrl.
Klaproth chem. Annal 1788. 1. *p.* 290. Schœrlit.

Gutanner chem. Ann. 1786. 1. *p.* 525. Weiſſer. Schœrl aus Braſilien.
Ferber 3 *miner. Brief. p.* 46. Weiſſer priſmatiſcher Schœrl.
Habitat in Braſilia *prope* Bonnam *in monte* Godesberg *in* Saxonia *prope* Altenberg *una cum mica et quarzo, et mera, ſi pauciſſimam aquam excipias, terra ſilicea et aluminari et æquali fere utriuſque parte conſtans, congeneribus mollior, texturæ ex compacta inæquali lamelloſæ, nunc formæ communis, in bacillos, tenues, rectos, parallelos ſecedens, nunc forma priſmatis perfecti hexdraei.*

Beryllus. 10. G. dura, coloris ex cæruleo viridis in igne conſtantis, igne non fundenda, texturæ conchaceæ ſi tranſverſim frangatur lamelloſæ, forma priſmatum hexaëdrorum longitudinaliter utplurimum ſtriatorum.
Cronſt. miner. §. 42. 2. Beryllus.
Hoffmann bergm. Journ. et Bideneim Schr. berl. Naturf. 10. *p.* 35. &c. 1788. 1. *p.* 253. Beryll.
Gerhard Grundr. p. 286. Aquamarinſchœrl.
Habitat in montium Saxoniæ Faſtemberg (*prope* Johanngeorgenſtadt) *et* Sibiriæ Tigeretskenſium, Nertſchinskenſium, Uralenſium, Dauuricorum, *quarzo, granita, wolframo &c. cryſtallis variæ magnitudinis, nunc diaphanis, nunc pellucidis, rarius ſolitariis aut geminis, quam aggregatis, interdum faſciculatis, colore nunc ad viridem, nunc ad cæruleum propius accedente rarius in flavum vergente aut variabili, in igne turbidus, pauciorem terram aluminarem* ($\frac{6}{25}$) *et calcariam* ($\frac{2}{25}$) *ferrique pauxillum* ($\frac{5}{300}$) *continens, ponderis ſpecifici* = 2250 *ad* 2782 : 1000.

Cryſoberyllus. 11. G. dura pellucida viridis intus nitidiſſima, texturæ conchaceæ.
Waller. ſyſt. mineral. 1. *p.* 244. *n.* 6. c. Cryſolithus colores reflectans diverſos.
Habitat nunc detritis angulis rotundata, nunc læviſſima, hexaedro-vel heptaedro-priſmatica, coloris inter tinctum aſparagi et olivaceum intermedii, interdum pro ſitu ad lucem variabilis, in Braſilia, Zeylona *et* Nertſcins-*kenſibus* Sibiriæ *montibus, ponderis ſpecifici* = 3698 *ad* 3719 : 1000.

Cryſolithus. 12. G. ſubdura pellucida leviuſcula coloris viridis in igne fugacis, fortiori fundenda et dum in fluidum ſtatum tranſit lucem ſpargens, texturæ conchaceæ.

Syſt. nat. XII. 3. *p.* 94. *n.* 2. *β*. Borax lapidoſus priſmaticus pellucidus, pyramidibus truncatis, virens.
Cronſt. mineral. §. 46. s. *Waller. miner.* 115. Topazius Chryſolithus.
Waller. ſyſt. miner. 1. *p.* 243. *n.* 6. Gemma pellucidiſſima, duritie ſexta, colore viridi ſubflavo in igne ſugaci.
Juſt. miner. 384. *Vog. miner.* 147. *Baum. miner.* 1. *p.* 234. Chryſolithus.
Habitat in Braſilia, Zeylona, Sibiriæ *montibus* Nertſchinsk*enſibus et* Uralen*ſibus*, Tranſilvaniæ Szelic*zenſibus*, *comitatu* Glaz *et* (*prope* Schüttenhofen) *in* Bohemia, *nunc detritis angulis rotundata*, *nunc cryſtallorum forma* (*et ſtriarum decurſu*) *topazium fere æmulans nunc forma priſmatum enneædrorum altero fine pyramide tetraedra truncata terminatorum*, *ignis vi pelluciditate orbanda ponderis ſpecifici* = 3340 *vel* 3410 : 1000.

Smaragdus. 13. G. dura pellucida leviuſcula coloris graminei in igne in cæruleum abeuntis, refrigeratæ redeuntis, fortiori liquanda, texturæ conchaceæ.

Syſt. nat. XII. 3. *p.* 95. *n.* 2. *δ*. Borax lapidoſus priſmaticus pellucidus, pyramidibus truncatis, viridis.
Cronſt. miner. §. 48. *Juſt. miner.* 379. *Vogel. miner.* 145. *Beaum. miner.* 1. *p.* 233. *Waller. miner.* 114. Smaragdus gemma.
Waller. ſyſt. miner. 1. *p.* 241. *n.* 5. Gemma pellucidiſſima, duritie quinta, colore viridi in igne permanente.
Habitat in montibus inter Ægyptum *et* Æthiopiam *intermediis*, *in regno* Peruano, *in diſtrictu* Ruſſici *imperii* Oremburgenſi, *ad* Perſiæ fines, *in* Kirgiſarum *terra*, *in* Norwegia (*prope* Ordal) Bohemia *et* Burgundia *paucam terram ſiliceam*, *pauciorem calcariam et parciorem adhuc ferri calcem continens*, *rarius pomacea*, *vel auri miculis quaſi conſita*, *rarius formæ communis quam cryſtallorum lævium utplurimum hexaedro-priſmaticarum*, *marginibus interdum truncatis nunc ſolitariarum*, *nunc aggregatarum*, *ſæpius ad margines aut laterales*, *aut terminales*, *aut omnes*, *aut ad angulos truncatarum*, *aut marginibus terminalibus in aciem exeuntibus conſpicuarum*, *poſt ſapphirum pretioſiſſima.*

Soranus. 14. G. dura pellucida ſubponderoſa recta lamelloſa, coloris hyacinthini igne modico perſiſtentis, fortiori paulo facile in ſcoriam opacam ſpumidam convertenda.

Cronſt. miner. §. 69 A. 2. o. Hyacinthus gemma.

Waller. ſyſt. miner. 1. *p.* 253. *n.* 4. a. b. Gemma granatica, colore igneo & Gemma granatica, colore flaveſcente.

Habitat in Helvetia, Norwegia, Groenlandia, Sibiriæ *montibus* Nertſchins*kenſibus et* Uralen*ſibus*, Zeylona, Braſilia, *nunc forma granorum rotundatorum in arena aut terra hærens, nunc forma priſmatum hexaëdrorum utrinque pyramide triedra terminatorum aliis lapidibus innidulans, ſpato duplo durior, ab infuſis accidis mineralibus fortioribus colorem exuens.*

Granatus. 15. G. dura ponderoſa rubra texturæ inæqualis, igne leniori colorem ſervans, paulo fortiori in ſcoriam opacam fuſcam ſpumidam abiens.

Syſt. nat. I. *p.* 181. *n.* 3. Stannum cryſtallis teſſellatis rubicundis.

Syſt. nat. XII. 3. *p.* 72. *n.* 5. Borax teſſellatus ſolidus politus ſcintillans.

Vogel miner. 144. *Baum. min.* 1. *p.* 238. Granatus.

Cronſt. miner. §. 69. A. *et* 70. Granatus martialis et Granatus crocis martis et jovis mixtus.

Waller. miner. 117. Gemma plus minus pellucida, duritie octava, colore obſcure rubro in igne permanente. *Woltersd. miner.* 32. Stannum polyedrum regulare ſub rubrum.

Gronov. ſuppl. 10. *n.* 42. 43. Stannum polyedrum regulare purpuraſcens.

α) pellucida.

Waller. ſyſt. miner. 1. *p.* 253. *n.* 4. Granatus cryſtalliſatus pellucidus rubens nitens, in igne colorem retinens, lapide liqueſcente.

β) opaca.

Waller. ſyſt. miner. 1. *p.* 252. *n.* 3. Granatus cryſtalliſatus opacus, in igne colorem retinens, fuſibilis.

a) *Syſt. nat.* XII. 3. *p.* 73. *n.* 6. Borax (Margodes) teſſellatus argillaceus opacus.

γ) in fragmenta granularia ſecedens.

Waller. ſyſt. miner. 1. *p.* 250. *n.* 1. Granatus figura indeterminata, particulis granulatis.

Waller. miner. 103. Quartzum granaticum.

Cronſt. miner. §. 69. A. 1. Granatus particulis granulatis, figura indeterminata.

δ) in fragmenta cruſtoſa ſecedens.

Waller-

Waller. ſyſt. miner. 1. *p.* 251. *n.* 2. Granatus figura indeterminata, lamelloſus.

ε) formæ communis.

ζ) forma granorum, detritis angulis rotundatorum liberorum in fluviis, humo, arena obviorum.

μ) forma cryſtallorum, aliis utplurimum innidulantium, lævium.

a) pyramidis.

a) tetraëdræ duplicis.

*) apicibus truncatis. Fig. 36.

b) pyramidis octaëdræ duplicis.

*) utroque apice pyramide altera tetraëdra depreſſa auctæ. *Amœn. acad.* 1. *p.* 482.

**b*) marginibus inter pyramides primitivas et acceſſorias truncatis, 32edra.

c) pyramidis triedræ, marginibus lateralibus et baſeos truncatis. Fig. 37.

d) pyramidis hexaëdræ, marginibus baſeos truncatis. Fig. 2.

ϑ) priſmatis hexaëdri.

a) perfecti. *Fichtel von Karpath. p.* 232.

b) utrinque pyramide triedra terminati. Fig. 26.

a) faciebus lævibus.

b) faciebus diagonaliter ſtriatis.

c) marginibus priſmatis truncatis. Fig. 32.

d) marginibus omnibus truncatis. Fig. 28.

ι) dodecaëdri. Fig. 11.

Amœn. accad. 1. *p.* 482. *t.* 16. *f.* 25.

Habitat innumera etiam coloris in nigrum, fuſcum, purpureum, ſanguineum, flavum vergentis variatate, in Madacaſcar, Æthiopia, India *viciniſque inſullis*, Syria, Armenia, Sibiria, Islandia, Groenlandia, Lapponia *et plurimis aliis* Europæ, *potiſſimum quoque* Germaniæ *regionibus, iuter quas* Bohemia *eminet, ea in* Tranſilvania *luxus materies multiplex, ponderis ſpecifici* = 3491 *ad* 4230 : 1000 *majorem, quam congeneres, terræ ſiliceæ copiam continens. An huc ſpectet ſcorlus ruber?*

41. OLIVINUS. Ex plurima terra ſilicea, pauciori aluminari et ferri calce conſtans.
In baſalte nidulans, intus nitens, formæ utplurimum communis, durus, in aëre fatiſcens.
In igne difficulter liquandus.

Werneri. 1. O. tinctus diaphanus, texturæ conchaceæ in fragmenta indeterminata diſſiliens.
Werner. bergm. Journ. 1790. 7. *p.* 55. Olivin.
Woigt Reiſ. durch. Weim. u. Eiſen. 2. *p.* 108. Grüner Schœrl.
Joſ. Mayer Abh. der boehm. Geſellſch. 3. 1787. *p.* 266. *Hoffm. bergm. Journ.* 1788. 1. *p.* 242. Chryſolithus.
Habitat in Galliæ, Hungariæ, Bohemiæ, Luſatiæ, Saxoniæ, Thuringiæ, Fulbæ, Haſſiæ, Goettingæ, Rheno *vicinis baſaltis, nunc granorum forma, nunc majoribus fruſtis innidulans, formæ communis, viridis, utplurimum olivaceus, interdum in fuſcum colorem vergens, ponderis ſpecifici* = 3225. 1000. *aliquando hyacinthinus in pulverem ochraceum fatiſcens.*

vitreus. 2. O. pellucidus vix tinctus, texturæ vitreæ in fragmenta indeterminata diſſiliens, ſuperficiebus ſphærice convexis.
Voigt Beſchr. des Hochſt. Fuld. &c. p. 171. Weiſſe glaſige Lava.
Habel in Klipſt. miner Briefw. II. 3. *p.* 270. *Gerhard chem. Annal.* 1785. 1. *p.* 57. Mülleriſches Glas.
Habitat in Alvernia, Germania (*prope* Francofurtum ad Moenum, *inter* Hanoviam *et* Budingam,) *in* Sileſia (*heic ſerpentino inſidens,*) *interdum botryoides, aut ſtillatitius, vitrum ſimulans in igne lacteſcens.*

ſpatoſus. 3. O. diaphanus albus texturæ lamelloſæ in fragmenta rhomboidalia diſſiliens.
Noſe orograph. Brief. 1. *p.* 224 Feldſpat.
Habitat in baſalte Goettingenſi *et* Rhenano *ad montem* Mendenberg *Feldſpato affinis, at durior et longe difficilius fundendus.*

fibroſus. 4. O. diaphanus albus fibroſus durus nitens.
v. H. miner. Beob. Baſalt. a Rhein p. 111.
Habitat ad Rheni *ripas prope* Unkal, *baſaltæ innidulans, fragilis.*

42. FELDSPATUM. Ex terra ſilicea plurima, pauciori aluminari, pauciſſima ferri calce et fluoris acido conſtans.

Durum, leviuſculum, nitens, lamelloſum, in fragmenta faciebus tetragonis conſpicua diſſiliens, in argillam fatiſcens, paraſiticum.

Cum aqua forti non efferveſcens, igne facile ſine ebullitione in vitrum pellucidum abiens.

cubicum. 1. F. ex rufeſcente fuſcum, nitoris vitrei, texturæ ſubfeſtucariæ, in fragmenta cubica non ſpecularia diſſiliens, in cruſtoſa ſecedens. *Karſt. bergm. Journ.* 1788. 2. *p.* 809 &c.

Habitat rarius in Saxonia, *formæ communis, diaphanum, aut ſubopacum, congeneribus difficilius in igne fluens.*

vulgare. 2. F. nitoris vitrei texturæ lamelloſæ in fragmenta rhomboidalia diſſiliens, faciebus quatuor ſpeculi inſtar nitentibus.

Syſt. nat. I. *p.* 153. *n.* 6. Spatum fixum ſcintillans.

Cronſt. miner. §. 66. H. Spatum ſcintillans.

Waller. miner. 61. Spatum durum lateribus nitidis ad chalybem ſcintillans.

α) opacum.

Syſt. nat. XII. 3. *p.* 50. *n.* 12. Spatum (campeſtre) fixum opacum rufeſcens ſcintillans.

Cartheuſ. miner. 13. Spatum informe durum ſubdiaphanum.

Waller. Syſt. miner. 1. *p.* 205. *n.* 1. Spatum ſcintillans, opacum, durum, planis regularibus.

β) diaphanum.

Syſt. nat. XII. 3. *p.* 50. *n.* 13. Spatum (ſiliceum) fixum diaphanum album ſcintillans.

Waller. ſyſt. miner. 1. *p.* 206. *n.* 2. Spatum ſcintillans diaphanum, planis minus regularibus.

γ) formæ communis.

γ) forma cryſtallorum.

Waller. ſyſt. miner. 1. *p.* 207. *n.* 3. Spathum ſcintillans cryſtalliſatum.

Cronſt. miner. §. 66. 2. Spatum ſcintillans druſicum.

a) priſmatum.

α) acicularium *Pini ſur des nouv. cryſtall. de feldſpat. Milan.* 1779. 8.

b) parallelipedorum. *Noſe orogr. Br.* 1. *p.* 130.

c) craſſiorum lateribus magis æqualibus.

ק rectangulorum.

† tetraëdrorum. *Voigt bergm. Abhandl.* 1. *p.* 200.

†† hexaëdrorum. *Pini ſur des nouv. cryſt. de feldſpat.*

††† octaëdrorum. *Pini ſur des nouv. cryſt. de feldſpat.*

קק obliquangulorum.

† tetraëdrorum. *Cronſt. miner.* § 66. 2. *a.*

†† hexaëdrorum. *Kaſt. Leſk. Mineralk.* 1. *p.* 175.

Habitat ubique terrarum *in* montibus primævis, *granitæ porphyrii et gneuſſi genuini partem conſtituens, in argillam porcellanam ſatiſcens, utplurimum carneum aut lacteum, interdum ex ruſeſcente flaveſcente, cæruleſcente album, rarius olivaceum, thalaſſinum aut cæleſtis coloris, nonnunquam ſuperficie modo luteſcente, ſæpe in fragmenta granularia ſecedens, lamellis rarius incurvis.*

variabile. 3. F. nitoris vivacis coloris pro ſitu ad lucem variabilis texturæ lamelloſæ in fragmenta rhomboidalia diſſiliens, faciebus quatuor ſpeculi inſtar nitentibus.

Schreber Naturf 24. *p.* 196. d. *Annone Beſch. berl. Naturf.* 3. *p.* 178.

Leske Naturf. 12. *p.* 145. Labradorſtein.

Habitat ſimiliter, uti videtur, tanquam pars granitæ, in inſula S. Pauli, Americæ *maxima ſeptentrionali finitima, rarius in aliis regionibus, in inſula* Ruſſici *imperii* Tunis-Oſtrof, *in montibus* Uralenſibus, *in* Ingria *prope* Petropolin, *in* Italia *et præſertim* Sabaudia, *in* Bohemia *ad* Iſuram, *in* Luſatia *prope* Lœbau, *in* Saxonia *prope* Geyer, *in circulo* Salicoprope Halam, *fruſtis utplurimum rotundatis, ſcorlum, micam, pyriten innidulantem ſæpe continentibus, ex atro cinereum, diaphanum, vel ſemipellucidum, eximio nitore per polituram mirifice exaltando et magis adhuc egregio colorum cœruleorum, viridium, flavorum, rubrorum luſu ſpectabile, ſæpe in fragmenta granularia, rarius in cruſtoſa ſecedens.*

lunare. 4. F. pellucidum album nitoris eximii, texturæ recte lamelloſæ in fragmenta rhomboidalia diſſiliens.

Θεοφρας. περι Λιθ. ὑαλοειδης.

Plinius hiſt. mund. libr. 37. *c.* 9. 10. Aſteria, Aſtrios, Androdamas.

Brückmann Beytr. z. Abh. v. Edelſt. p. 129. Mondſtein, Waſſeropal.

Dutens des pierr. précieuſ. p. 111. Pierre de la lune.

Morell. Magaz. für Helvet. Naturk. 2. *p.* 84. Adularia.

Scopol. delic. inſubr. 3. *p.* 75. Pedionites.

Habitat in inſula Zeylon, *in monte* Delphinatus *ædibus* S. Chriſtophori *vicino*, *in* monte nigro Occitaniæ, *in* Saxonia *prope* Altrauſtedt, *in* Bohemia *ad* Huram, *in* Valle tellina *prope* Caſtion, *præcipue in monte* Sti. Gotthardi, *& potiſſimum ad montem* Stella, *nunc formæ communis, nunc detritis angulis rotundatum, nunc tabulas tetraedras, nunc priſmata, frequentius obliquangula, tetraedra aut hexaedra repræſentans, texturæ interdum ad fibroſam accedentis, pro ſitu ad lucem vario matris perlarum ſplendorem aut colorem dilute carneum monſtrans, gemmis adſcriptum.*

Oculuſcati. 5. F. diaphanum, texturæ ad conchaceam accedentis, fibras parallelas intus monſtrans, in fragmenta minus regularia diſſiliens.

Syſt. nat. XII. 3. *p.* 69. *n.* 6. γ. *Cronſt. min.* §. 55. c. Silex (Opalus) Pſeudoopalus (Oculus cati) reflexione varians.

Juſt. miner. p. 383. Lapis elementaris.

Wall. ſyſt. miner. 1. *p.* 282. *n.* 20. Achates plus minus opaca, colores vel lucem diverſimode reflectens.

Habitat in Sibiria, Zeylona, *gemmis vulgo adſcriptum, dubii etiamnum generis, partium conſtituentium mixtione, vix enim ultra* ($\frac{1}{12}$) *terræ ſiliceæ continere, teſtis eſt Gerhardus, lacteo, argenteo, ochroleuco, aureo, melleo, cupreo, rufeſcente, cæruleſcente, thalaſſino, olivaceo, vireſcente, ex vireſcente vel flaveſcente cinereo, ex luteſcente vel rufeſcente fuſco, fuſceſcente, chalybeo, nigricante aut nigro, pro vario ad lucem ſitu vario, & in determinato ſitu arcum luminoſum monſtrans, ſæpe ſemipellucidum, hactenus non niſi fruſtorum rotundatorum forma repertum.*

43. PYROMACHUS. Ex terra ſilicea, aluminari ($\frac{1}{8}$) & calcaria ($\frac{1}{16}$) conſtans.

Durus, diaphanus leviuſculus, texturæ conchaceæ, in fragmanta indeterminata valde acutangula diſſiliens, rarius in fragmenta concentrice cruſtoſa ſecedens, nitore vix ullo conſpicuus, in montibus ſtratariis potiſſimum obvius, rarius ſtrata ipſa conſtituens.

Solus igne non liquandus.

cinereus. 1. P. caneſcens ad ſubopacum accedens, texturæ ad feſtucariam accedentis.

Syſt. nat. XII. 3. *p.* 68. *n.* 3. Silex (marmoreus) vagus, cortice marmore duro, fragmentis ſubdiaphanis caneſcentibus.

It wgoth. 73. Silex cinereus.

Habitat vagus, cortice duro marmoreo albo obductus in Luſatia, Lituania, *in monte* Moſſeberg Weſtrogothiæ *ad petroſilicem accedens. An diſtincta hujus generis ſpecies?*

ſtriatus. 2. P. albus, texturæ ad fibroſum accedentis. *Wall. ſyſt. min.* 1. *p.* 266. *n.* 7.

Habitat in Angliæ *montibus cretaceis.*

cretaceus. 3. P. tinctus diaphanus, texturæ perfecte conchaceæ. *Syſt. nat.* I. *p.* 150. Silex cretaceus vagus.

Syſt. nat. XII. 3. *p.* 67. *n.* 1. Silex vagus, cortice cretaceo, fragmentis opacis lævibus.

Cronſt. min. §. 61. Silex communis Pyromachus.

Wall. min. 77. Silex corneus intrinſece æqualis duriſſimus.

Wall. Syſt. min. 1. *p.* 262. *n.* 4. Silex opacus, fractura nitens, cretaſeus durus.

Wolt. min. 14. Corneus lapis opacus rudis, colore ingrato.

Vogel min. p. 130. Corneus ſclopetarius.

Baum. min. 1. *p.* 254. Pyromachus ſ. Silex igniarius.
Hacquet it. carp. ſept. 1. *g.* 54. *ſqq.*
Habitat in Galliæ, Angliæ, Daniæ, Scaniæ *campis maritimis vagus, alias forma communi, fruſtrorum ungulatorum, perforatorum, granorum, tuberum, globorum, intus nonnunquam cavorum, rarius per ſtrata montibus, præſertim calcariis incluſus, hinc toties cortice calcario veſtitus, utplurimum fumi colore conſpicuus, interdum ex flaveſcente cinereus, ochraceus, fuſcus, etiam maculatus aut ſtriatus, ſuperficie nunc inæquali, nunc ſcabra, nunc lævi, igni excitando, ſclopetis, domibus ſtruendis, plateis ſternendis, vitro parando, lævigandis variis, &c. inſerviens.*

ſemipellucidus. 4. P. lævis ad ſemipellucidum accedens.

Syſt. nat. XII. 3. *p.* 67. *n.* 2. Silex (Pyromachus) vagus, cortice glabro, fragmentis diaphanis glaberrimis.
Waller. ſyſt. min. 1. *p.* 265. *n.* 6. Silex ſemipellucidus intrinſece æquabilis, mollior.
Habitat cum cretaceo, rarior tamen, in Gallia, Wirtembergia, Franconia, Islandia, *candidus, melleus, rubeſcens, cæruleſcens, aut variegatus, ejusdem cum cretaceo uſus.*

cryſtallinus. 5. P. pyramide triedra depreſſa.
α) duplici. *Werner apud Cronſt. min. p.* 137. *Hoffm. berg. Journ.* 1788. 1. *p.* 282.
β) ſimplici. *Karſt. Lesk. Mineralkabin.* 1. *p.* 113.
Habitat in Saxonia, α) *prope* Johanngeorgenſtadt β) *prope* Schneeberg.

44 **PETROSILEX.** Ex plurima terra ſilicea, pauciori ($\frac{11}{55}$) aluminari, pauciſſima ($\frac{1}{50}$) calcaria conſtans.

Subdurus leviuſculus, in montibus primævis æque ac ſtratariis obvius, nitoris expers, in fragmenta indeterminata diſſiliens, textura feſtucas referens.

Ignis vi liquandus.

opacus. 1. P. ſubopacus formæ communis.
Cronſt. min. §. 92. Petroſilex, lapis corneus.
α) textura feſtucas minores referens.
Waller. Syſt. miner. I. *p* 268. *n.* 9. Petroſilex opacus, æquabilis & lævis mollior.
a) coloribus per ſtrata alternantibus.
Syſt. nat. XII. 3. *p.* 71. *n.* 16. Silex (polyzonias) rupeſtris, ſtratis diverſicoloribus.
β) textura feſtucas majores referens.
Waller. Syſt. miner. I. *p.* 267. *n.* 8. Petroſilex opacus ſquamoſus, facie fere granulari, mollior.
a) colore vireſcente.
Syſt. nat. XII. 3. *p.* 70. *n.* 12. Silex (vireſcens) rupeſtris nudus opacus vireſcens.
Habitat frequens in Suecia, Germania, *trochitis interdum* (e. g. *prope* Goettingam) *& crebro aliis foſſilibus innidulantibus refertus, hinc inde vagus, creberrime inſigni tinctus varietate cinereus, rarius ochroleucus, fuſcus, vireſcens aut variegatus, aliquam nonnunquam polituram admittens.*

diaphanus. 2. P. ſubdiaphanus formæ communis.
Syſt. nat. I. *p.* 150. *Schreb. lithogr.* 14. Silex marmoreus rupeſtris.
Syſt. nat. XII. 3. *p.* 70. *n.* 11. Silex (Petroſilex) rupeſtris, cortice lacteo, ſubdiaphanus.
Muſ. Teſſ. 8. *n.* 5. Silex pſeudoachates.
Wall. min. 150. *ſyſt. min.* I. *p.* 271. *n.* 12. Petroſilex ſemipellucidus compactus mollior.
Wolters.. min. 87. Petroſilex ſemipellucidus.

Baum. min. I. *p.* 255. Petroſilex jaſpideus.
Habitat cum opaco, cinereus albus, ochroleucus, roſeus carneus, ex fuſco ruber, ex luteo vel rubro fuſcus, viridis, variegatus, nitidam ſæpe polituram admittens.

crystallinus. 3. P. cryſtallis ſcabris, intus crebro cavis. *Beyer chem. Annal.* 1786. I. *p.* 63. *& Beytr. z. chem. Annal.* 2. *p.* 190.

α) priſmaticis.
a) hexaedris.
a) perfectis.
b) utrinque ſuperficiebus convexis } terminatis.
c) ——— pyramide triedra } terminatis.
β) cubicis.
γ) tabularibus.
a) hexaedris.
δ) pyramidalibus.
a) duplicibus.
a) tetraedris.
b) triedris.
†) depreſſis.
b) ſimplicibus.
a) triedris minimis acuminatis.

Habitat in Saxonia *prope* Schneeberg, *non primitivus, ſed modulo, ut videtur, a ſpato mutuato, tenui terreo cortice interdum obductus.*

45. JASPIS. Ex terra ſilicea, pauciori aluminari & ferri calce conſtans.

Subdurus, opacus, in fragmenta indeterminata diſſiliens, texturæ conchaceæ, leviuſculus, nunc vagus, nunc montium, prioris quoque ætatis, partem præcipuam conſtituens, formæ communis.

Igne colorem mutans.

ægyptia. 1. J. coloris obſcurioris ſtriis ſtratisve concentricis diverſicoloribus picturisque nigris arbuſcularum varia.
Syſt. nat. XII. 3. *p.* 68. *n.* 4. Silex (hæmachates) vagus, cortice ochraceo, opacus, concentrico variegatus.

Muſ. Teſſin. 4. Silex vagus rotundatus concentrico-corticoſus.

Cronſt. min. §. 60. 6. *α.* Caillon d'Egypte.

Vogel min. 138. Pierre d'Egypte.

Habitat in Ægypto (*prope* Suez,) & Lotharingia (*prope* Freiſee,) *monte* Bogolhegi Hungariæ, *forma globi imperfecti aut placentæ ſcabræ obvia, intus nitens, congeneribus durior, coloribus ex luteo fuſco, hepatico, iſabellino & ex flaveſcente cinereo, per ſtrias alternantibus varia, egregiam polituram admittens; hinc ſcatulis pro pulvere naſali, aliisque ejusmodi vaſis & ornamentis adhibita.*

faſciata. 2. J. colore per ſtrata alternante intus nitoris expers texturæ imperfectius conchaceæ.

Waller. ſyſt. min. I. *p.* 301. *n.* 2. I. Jaſpis variegata faſciata.

Habitat, integra utplurimam ſtrata conſtituens, in Hercynia, Saxonia (*prope* Wolftiz & Gnantſtein *inter* Chemnitiam & Lipſiam,) *in* Sibiria (*prope* Orsk &c.) *coloribus ochroleuco & ſubcaryophillino, vario cinereo & cæruleo, cinereo & rubro, viridi & fuſco, viridi & albo, viridi & rubro, per ſtrata, rarius curva aut concentrica alternis, quartzo mollior, egregiam utplurimum polituram admittens.*

porcellanea. 3. J. dura intus rimoſa, texturæ a conchacea in planam vergentis.

Hoffm. bergm. Journ. 1789. I. *p.* 390. *Karſt. Lesk. Mineralk.* I. *p.* 160. Porcellanjaſpis.

Reuſ. Orogr. des boehm. Mittelg. p. 133.

Habitat, integra ſtrata conſtituens, in Bohemia *prope* Stracke, Schwinſchiz, Leſſa, Laun, Luſchiz, Czernodol, *rarior in* Saxonia *prope* Pluniz, *argillam exſiccatam interna facie referens, & ex argilla ferrifera per incendium lithanthracum indurata proveniens, ſtraminei, cani, margaritacei aut lavendulacei coloris.*

vulgaris. 4. J. ſubdura intus micans aut nitens, unicolor, venoſa aut maculata.

Cronſt. miner. §. 63-65. Jaſpis.

α) unicolor.

Syſt. nat. I. *p.* 150. *Schreb. lith.* 16. Silex margaceus rupeſtris.

Syſt. nat. XII. 3. *p.* 71. *n.* 13 & 14. Silex (Jaſpis) rupeſtris nudus opacus cinereus, & ſilex (Rubicator) rupeſtris nudus opacus ruber ſolidus.
Wall. min. 89. 86. Jaſpis unicolor.
Wall. ſyſt. min. I. *p.* 297. *n.* I. & *p.* 304. *n.* 5. Jaſpis particulis ſubtiliſſimis unicolor, & Jaſpis opacus particulis diſtinctis, rudis facie granulari.
Cartheuſ. min. 29. Jaſpis rudis.

β) variegata.
Cronſt. §. 64. I. ɛ. Jaſpis rubra maculis venisque flavis.
Wall. ſyſt. min. I. *p.* 299. *n.* 2. Jaſpis particulis ſubtiliſſimis, ſolida, opaca, variegata.
Habitat nunc vaga, nunc aliis incluſa, nunc ſtrata ampliora & partem præcipuam conſtituens in Caucaſo, *montibus* Sibiriæ Tſchircai, Uralenſibus, Nertſchinskenſibus, *in montibus* Giganteis, Saxonicis, Thuringicis, Hercynicis, *per totam* Europam, *frequens quoque in* Oriente, *in* nova Hiſpania, *innumeræ colorum albi, cinerei, flavi, fuſci, nigri & rubri potiſſimum varietate pluribus ſæpe ſimul, conſpicua, ferri interdum valde dives & tum facili ignis vi liquanda, cupro etiam* (*in* Temeſia) & auro larvato (*in* Hungaria) *aliquando prægnans, eximiam polituram admittens, hinc variis ſculptorum & architectorum operibus inſerviens.*

46. SMIRIS. Ex terra ſilicea & pauciſſimo ($\frac{21}{480}$) ferro conſtans.

Duriſſima, formæ communis, opaca, magnetem ſequens, tritura rubra. Ignis vi non fundenda.

Poliens. 1. SMIRIS. *Wiegleb chem. Annal.* 1786. I. *p.* 492.
Syſt. nat. I. *p.* 176. *n.* 11. Ferrum intractabile ſquamoſo-ſtriatum.
Syſt. nat. XII. 3. *p.* 139. *n.* 17. Ferrum retractorium rubicoſum vitrum arans.
Wall. min. 267. Ferrum mineraliſatum, minera duriſſima rapaci ſolida magneti refractaria.
Wall. ſyſt. min. 2. *p.* 243. *n.* 9. Ferrum mineraliſatum duriſſimum, particulis duriſſimis aceroſis, tritura fuſca aut rubente.

Woltersd. miner. 31. Ferrum amorphum petræ vitreſcentis.

Cronſt. miner. §. 211. 2. Minera ferri retractoria tritura rubra.

Carth. mineral. 72. Ferrum mineraliſatum duriſſimum fuſcum.

Habitat in Oriente, *inſulis* Archipelagi, Samo & Naxo, Bohemia, Saxonia (*prope* Schneeberg,) Hiſpania, regno Peruano, *micæ, talco, ſaxo grandævo innidulans, ex cæruleſcente nigra, interdum cinerea aut griſea, ob ferri inopiam & inſignem duritiem vix inter ferri mineras connumeranda, propter hanc poliendis metallis, lapidibus, vitro inſerviens, eum in finem, ſæpe molendinarum vi, in tenerrimum pollen comminuta.*

47. CIRCONIUS. Ex terra ſilicea, duplo majore (& ultra) ſibi propriæ terræ copia & pauciſſima ($\frac{1}{200}$) calce metallica, partim ferrea partim niccolina conſtans.

Duriſſimus, ponderoſus, nitore adamantem ſimulans, paraſiticus, lamelloſus, lamellis incurvis, cryſtallinus.

Ignis vi non fundendus.

zeylonicus. 1. CIRCONIUS. *Karſten apud Lempe Magaz. der Bergbauk.* 4. *p.* 99. *Klaproth Schr. berl. Naturf.* 9. *p.* 173.

Habitat in inſula Zeylon, *forma priſmatum tetraedrorum rectangulorum, utrinque pyramide, tetraedra terminatorum aut pyramidum duplicium tetraedrarum, vini flavedine tinctus, frequentius ex vireſcente cinereus aut albus, aut ex cineraſcente albus, colore ſæpius in viridem, flavum, fuſcum, violaceum vergente, gemmæ titulo haud indignus, ponderis ſpecifici* = 4416 *ad* 4700 : 1000.

48. AMARUS. Ex terra ſilicea, pauciori magneſia alba, pauciſſima aluminari et calcaria, ferroque ($\frac{1}{10}$) conſtans.

Durus, tenax, ſubopacus, pinguiuſculus, viridis, textura feſtucas referens, in fragmenta indeterminata diſſiliens, formæ communis.

Ignis vi non fundendus.

amazonicus. I. AMARUS. *Hœphner Magaz. für die Naturk. Helvet.* I. *p.* 257.

Waller. ſyſt. miner. I. *p.* 302. *n.* 4. Jaſpis unicolor, particulis ſubtiliſſimis viſu & attactu pinguis, durus.

Habitat in Oriente, nova ſcetandia, Armenia *meridionali, montibus* ſabaudicis *et* helveticis, *nunc vagus, nunc montium partem præcipuam conſtituens, colore in cæruleſcentem, in f. ſtucis prominentibus in lacteum vergente, veteribus jam, qui varia in eum inſculpſere, cognitus, ab Orientis et novæ* Scelandiæ *incolis variis ornamentorum, vaſorum, armorum generibus adhibitus.*

49. LYDIUS. Ex terra ſilicea, pauca calcaria, magneſia alba, ferri calce et phlogiſto conſtans.

Durus, leviuſculus, opacus, compactus cinereus aut niger, ſchiſtoſus, formæ communis, in fragmenta indeterminata diſſiliens, nunc vagus, nunc montium partem præcipuam conſtituens.

Ignis vi non fundendus.

ſiliceus. I. L. ſubopacus textura feſtucas referens, intus nitoris expers.

Syſt. nat. XII 3. *p.* 71. *n.* 15. Silex rupeſtris nudus opacus rufus lamellatus.

Waller. ſyſt. miner. I. *p.* 299. *n.* I. g. Jaſpis unicolor nigra.

Karſten Magaz. für Helv. Naturk. 3. *p.* 219. Hornichiefer.

Habitat in Siberia, Suecia, Saxonia, *prope* (Wilsdruf, Gersdorf, Reichenbach,) Luſatia, Hercynia, *ripa* Rheni *inferiore* (*ad montem* Bniderkunzberg) Helvetia, (*ad montem* Scheidek, *integra montium ſtrata conſtituens*, *vagus quoque ad fluvios* e. g. Germaniæ *varios*, e. gr. Salam, Werram.

genuinus. 2. L. texturæ planæ interdum ad conchaceam accedentis, intus parumper micans. *Hoffmann bergm. Journ.* 1788. 1. *p.* 293.

Habitat cum ſiliceo, e. g. *in* Saxonia (*prope* Burkersdorf *et* Reicherbach,) *vagus quoque ad fluvium* Tmolum, *ſæpius quartzi venis canis exaratus.*

50. CHLOROGRANATUS. Ex terra ſilicea, multa ferri calce, ſat multa terra calcaria, interdum quoque aluminari conſtans.
Durus, nunquam opacus aut ſubopacus, cryſtallinus.
Igne facile liquandus.

verus. 1. Chl. viridis, igne candente melleus. *Wiegleb chem. Annal.* 1788. 1. *p.* 200. *Voigt mineral. u. bergm. Abh.* 1. *p.* 15. 22.

α) pyramide duplici octaëdra, ad utrumque apicem altera tetraëdra aucta.

β) priſmate hexaëdro utrinque in pyramidem triëdram terminato.

Habitat in Bohemia (*prope* Lichtewalleſtein,) *in* Saxonia (*prope* Ehrenfriedersdorf, Breitenbrunn, Eibenſtock, Schwartzenberg,) *in* Franconia (*ad montem* Ehrenberg *prope* Ilmenau) *nunc porri*, *nunc olivæ virore tinctus*, *nunc diaphanus*, *nunc pellucidus*, *argilla interveniente integra ſæpe ſtrata conſtituens*, *ob facilem in igne fluxum et ferri copiam* ($\frac{1}{4}$) *quam continet*, *in uſtrinis ferri mineris adjectus*, *ponderis ſpecifici* = 3754 *ad* 3757 : 1000.

dubius 2. Chl. ruber cubicus. *Weſtrumb chem. Annal.* 1789. 2. *p.* 26. &c.

Habitat - - - plurimam ($\frac{1}{5}$) *aëre fixo prægnantem terram calcariam, parciorem ferri* ($\frac{1}{10}$) *copiam continens, cryſtallis exilibus aggregatis, arenario friabili inſidentibus. An hujus generis ?*

51. ARENA. Ex lapidibus ſiliceis comminutis nata.
Aſpera, dura, ſicca, conſtans granis non cohærentibus; aqua non penetrandis.
Ignis vi ſola non fundenda, una cum alcali fixo fuſa in vitrum abiens.

* *ex pyromacho comminuto profecta.*

ſilicea. 1. A. ex pyromacho nata.

Syſt. nat. XII. 3. *p.* 199. *n.* 14. *Kalm. it.* 1. *p.* 359. *Carth. miner.* 10. Arena ſilicea.

Habitat in Angliæ *provincia* Buckingham.

* * *ex quartzo progenitæ.*

ꝩ *impuriores.*

Sabulum. 2. A. granis angulatis inæqualibus majoribus.

Syſt. nat. I. *p.* 207. *n.* 7. *Muſ. Teſſin.* 112. Arena heterogenea ſaxoſa e mica, quartzo, ſparo.

Syſt. nat XII. 3. *p.* 198. *n.* 9. Arena heterogenea difformis angulata.

Waller. miner. 34. Arena particulis groſſioribus inæqualibus.

Waller. ſyſt. miner. 1. *p.* 106. *n.* 7. Arena ſaxoſa.

Carth. miner. 10. Arena particulis diſſimilaribus.

Habitat ubique *in* ſterilibus *montoſis, rupeſtribus, directe ex fatiſcente granite generata, hinc ſæpius immixtæ micæ, feldſpati, argillæ particulas monſtrans, viis publicis ſternendis & cæmento calcario parando inſerviens.*

micacea. 3. A. ſquamulis micæ colore & nitore aurum argentumve referentibus crebris interſitis nitens.

Syſt. nat. I. *p.* 208. *n.* 6. XII. 3. *p.* 198. *n.* 11. *Muſ. Teſſin.* 112. *Gronov. ſuppl.* 14. *n.* 2. 3. Arena micacea ſquamoſa nitens.
Waller. miner. 37. Arena micans.
Waller. ſyſt. miner. 1. *p.* 105. *n.* 6. Arena micacea nitens.
Carth. miner. 10. Arena nitida.
β) *Syſt. nat.* XII. 3. *p.* 198. *n.* 10. Arena (Cafferita) quartzoſa rotundata ſubdiaphana mixta particulis micaceis.
Habitat in Suecia, Germania, β) *ad inſulam* Afferitam, *nata ex deſtructis* granitis *et aſſinibus ſaxis*, *abluta ſi quam continuerunt, per aquam argilla ex feldſpato fatiſcente nata, ſcriptis litteris ornamenti craſſa inſperſa.*

ruſtica. 4. A. granis ſubrotundatis inæqualibus majoribus.
Syſt. nat. XII. 3. *p.* 197. *n.* 8. Arena heterogenea inæqualis ſubrotundata.
Waller. miner. 33. Arena quartzoſa tenuior particulis æqualibus rotundatis.
Carth. miner. 10. Arena groſſiuſcula quartzoſa, particulis anguloſis.
Habitat paſſim in Europa, *imprimis ad littora ævi, pavimentis adſpergendis inſerviens, particulas lamelloſas quaſi ſpati immixtas continens.*

colorata. 5. A. granis rotundatis minutis ſubdiaphanis ferri calce tinctis.
Syſt. nat. XII. 3. *p.* 196. *n.* 2. Arena quartzoſa rotundata ſubdiaphana colorata.
β) *Syſt. nat.* XII. 3. *p.* 197. *n.* 7. Arena (ochracea) ſubfarinacea ochracea rufa.
γ) *Syſt. nat.* XII. 3. *p.* 197. *n.* 3. Arena (lacuſtris) quartzoſa angulato rotundata diaphana hyalina.
Habitat in America meridionali Europa, *flaveſcens ad lacuum littora, alias flava, lutea aut teſtacea, rarius rubra in mari* Baltico Germaniam *verſus violacea, litteris adſpergendis et ambulacris hortorum pulcrioribus inſerviens.*

Glarca. 6. A. granulis minutiſſimis argillæ pulverulentæ commiſtis.
Syſt. nat. I. *p.* 208. *n.* 1. XII. 3. *p.* 197. *n.* 6. *Muſ. Teſſin.* 110. Arena ſubfarinacea pulverulenta impalpabilis apyra.
Waller. miner. 31. Glarca mobilis vulgaris pulverulenta.
Waller. ſyſt. miner. 1. *p.* 87. *n.* 2. Glarca particulis inæqualibus mixta pulverulenta vulgaris.
β) *Waller. miner.* 31. 3. Glarca ſterilis fuſoria.

Waller.

Waller. ſyſt. mineral. 1. *p.* 86. *n.* 1. Glarea particulis ſubtiliſſimis durior æquabilis.

Habitat in Europæ campis ſilvaticis *ſteriliſſimis, pinetis, ericetis, ſicca mobiliſſima, humida ſubplaſtica, hinc præſertim ſi cum aceto in paſtam redacta manum prementem dimittat, metallis fuſis recipiendis inſerviens.*

† † *puriores.*

horaria. 7. A. granis majoribus æqualibus rotundis diaphanis albidis.
Syſt. nat. XII. 3. *p.* 197. *n.* 4. Arena (campeſtris) quartzoſa rotunda diaphana pallida.
Waller. miner. ſp. 35. Arena quartzoſa, particulis æqualibus rotundis.
Waller. ſyſt. miner. 1. *p.* 103. *n.* 3. Arena quartzoſa, particulis majoribus æqualibus rotundis.
Carth. miner. 10. Arena groſſiuſcula quartzoſa particulis rotundis.
β) *Syſt. nat.* XII. 3. *p.* 197. *n.* 5. Arena (margaria) quartzoſa rotundata alba ſuperficie ſubverrucoſa.
Habitat in campis *præſertim* ſilvaticis, *clepſydris adhibita.*

mobilis. 8. A. granis minimis rotundatis diaphanis albis.
Syſt. nat. XII. 3. *p.* 196. *n.* 1. Arena quartzoſa rotundata diaphana hyalina.
Waller. miner. ſp. 30. Glarea mobiliſſima impalpabilis fluida albicans.
Waller. ſyſt. miner. 1. *p.* 101. *n.* 1. Arena quartzoſa mobiliſſima impalpabilis fluida albicans.
α) *Syſt. nat.* I. *p.* 208. *n.* 3. Arena quartzoſa vento volatilis.
Carth. miner. 10. Arena ſubtilis mobilis levis.
β) *Syſt. nat.* I. *p.* 208. *n.* 4. Arena quartzoſa rotundata æqualis.
γ) *Syſt. nat.* I. *p.* 208. *n.* 2. *Muſ. Teſſin.* 110. Arena quartzoſa impalpabilis.
Habitat α. β. *in* Mari & maritimis, γ. *in* ſcaturiginibus, *ſicca a ventis nivis inſtar in acervos coacta, loca mutando plantarum incolentium radices aeri exponit, vicinos agros, campos, vicos ſuffocat, aerem obnubilat, elymo & arundine arenariis, tritico repente, ſalicum ſpeciebus nonnullis &c. coercenda, vaſorum metallicorum mundationi & polituræ inſerviens.*

52. QUARTZUM. Ex terra ſilicea, pauciſſima ($\frac{3}{70}$) aluminari et calcaria ($\frac{1}{100}$) conſtans.

Durum, leviuſculum, fragile, intus nitens, in fragmenta indeterminata marginibus acutis diſſiliens, ſæpius paraſiticum, in montibus omnis ætatis obvium in aërem fatiſcens.

Solum ignis vi non liquandum, cum alcali fixo in vitrum durum pellucidum ignis vi confluens.

fibroſum. 1. Q. diaphanum albidum fibroſum, fibris craſſioribus parallelis, formæ communis.
v. Born. ind. foſſ. 1. *p.* 21. 2. *p.* 92.
Habitat in Hungariæ *montibus* Carpathicis, & (*prope* Rabiſchau) ſileſia, *album.*

foveolatum. 2. Q. ſuperficie foveolis inæquali, formæ communis.
Habitat in Hungaria (*prope* Schemniz,) Bohemiæ (*prope* Ratieborziz,) Saxoniæ (*prope* Freyberg & Schneeberg,) & Sueciæ (*prope* Sunneiſkog) *fodinis, utplurimum album, rarius violaceum aut ochraceum, utplurimum diaphanum, interdum opacum, foveolis creberrime cubicis, rarius parallelepipedis aut triedro-pyramidalibus, aut ſphæricis aut tabularibus.*

foraminulentum. 3. Q. foraminibus rotundis profundis pertuſum formæ communis.
Karſt. Lesk. Mineralkab. 1. *p.* 98. 99.
Habitat in Saxonia (*prope* Freyberg) & Hungaria (*prope* Schemniz) *album, caneſcens, aut ochraceum, foraminibus utplurimum anguſtis, interdum flexuoſis.*

eroſum. 4. Q. foveolis & cavitatibus plurimis vacuis exilibus plenum, formæ communis.
v. Born. ind. foſſ. 1. *p.* 26.

Habitat in Hungariæ *fodinis* Schemnizenſibus, *album, violaceum aut obſcure vireſcens.*

cellulofum. 5. Q. lamelloſum, lamellis contiguis verticalibus lapidem in cellulas diſpertientibus, formæ communis.

Cronſt. min. §. 51. C. Quartzum purum textura ſpatoſa.

v. Born ind. foſſil. 1. *p.* 25.

Karſt. Lesk. Mineralkab. 1. *p.* 19. 98.

α) cellulis ſimplicibus.

a) trigonis.

b) tetragonis.

c) hexagonis.

d) polygonis.

e) rotundis.

†) minutis. Quartzum ſpongioſum.

f) in gyros tranſeuntibus.

β) duplicatis.

Habitat in Sibiria (*prope* Catharinopolin,) Hungaria (*prope* Schemniz & Neoſolium,) Bohemia (*prope* Joachimſthal,) Saxonia (*prope* Schneeberg & Freyberg,) & Palatinatu rhenano, *nunc album, nunc ferri calce magis minusve tinctum.*

lamelloſum. 6. Q. lamelloſum, lamellis parallelis, formæ communis.

Syſt. nat. XII. 3. *p.* 66. *n.* 5. Quartzum (fiſſile) lamellatum.

Waller. ſyſt. min. 1. *p.* 215. *n.* 7. Quartzum lamellis compoſitum.

v. Born ind. foſſ. 1. *p.* 25. 2. *p.* 91.

Habitat in Hungariæ (*prope* Schemniz) & Bohemiæ (*prope* Mies & Joachimſthal) fodinis, *lacteum, album, violaceum aut fuſcum, lamellis ſæpius ita coadunatis, ut inciſum videatur quartzum, & prouti in celluloſo, interdum tenuiſſimis.*

criſtatum. 7. Q. ſuperficie ſulcis parallelis teneris exarata, formæ communis.

Karſt. Lesk. Mineralkab. 1. *p.* 98.

v. Born ind. foſſ. 1. *p.* 25. 2. *p.* 91.

Habitat in Saxoniæ (*prope* Freyberg & Schneeberg,) & Hungariæ (*prope* Schemniz) fodinis, *album, violaceum aut ex luteo fuſcum.*

globuloſum. 8. Q. forma magis minusve rotundata, pellucidum.

Syſt. nat. XII. 3. *p.* 66. *n.* 7. 8. Quartzum (selectum) vagum rotundatum, cortice lævigato, & Quartzum (nobile) vagum rotundatum, cortice glaberrimo nitido.

ι) forma globi.

a) perfectioris.

a) denſi.

b) intus cavi.

b) imperfectioris.

a) compreſſi.

β) forma ovi.

a) perfectiori.

b) minus perfecta.

a) ad amygdalæ figuram accedente.

γ) forma renis.

δ) tuberoſum.

Habitat nunc vagum ad Aſiæ, Africæ, Europæ *aquas dulces, potiſſimum fluvios, fluviorumque derelictas quoque ripas, nunc aliis laxioribus & durioribus foſſilibus impactum* e. g. *in* Hungaria *prope* Schemniz, *in* Luſatia *ſuperiori*, *in* Saxonia *prope* Freyberg, Lipſiam, &c. *ut plurimum album.*

cylindricum. 9. Q. in cylindros ſecedens.
Wern. Ueberſ. Cronſt. min. p. 111.
Karſt. Lesk. Mineralk. 1. *p.* 105. 106.
v. Born ind. foſſ. 1. *p.* 25.

α) in cylindros parallelos.
Gerhard Beytr. z. Mineralr. 1. *p.* 82. *n.* 3. Quartzum cylindricum.

β) in cylindros divergentes.
Gerhard Beytr. z. Mineralr. 1. *p.* 82. *n.* 4. Quartzum radiatum.

Habitat in Hungaria *(prope* Schemniz, *) in* Luſatia *(inter* Biſchofswerda & Bauzen*) in* Saxonia *(prope* Freyberg,*) & in* Allatia *(prope* fanum S. Mariæ,*) nunc album, ſubopacum, cylindris nunc tenuioribus, nunc craſſioribus.*

granulare. 10. Q. in fragmenta granularia ſecedens.
Wern. Ueberſ. v. Cronſt. min. 1. *p.* 111.
Karſt. Lesk. Mineralkab. 1. *p.* 106.
Syſt. nat. I. *p.* 47. XII. 3. *p.* 66. Quartzum (cortaceum) granulatum.
Woller. min. 100. *ſyſt. min.* 1. 214. *n.* 6. Quartzum granulatum cohærens.

Habitat granis frequentius exilibus & ſubtilibus, quam craſſis, interdum vagus, in Norwegia, Hiſpania, Gallia, Saxonia *album, variegatum, vireſcens, rubrum aut ex luteo ſuſum, granulis nonnunquam ita diſpoſitis, ut politura accedente luci oppoſitum* (Avanturino) *egregium fulgorem reflectat.*

ſtillatitium. 11. Q. ex aqua particulis quartzi impraegnata ſenſim depoſitum, ſæpe alia corpora quaſi cortice obducens.

Syſt. nat. I. *p.* 191. *n.* 6. XII. 3. *p.* 185. *n.* 9. Stalactites quartzoſus granulatus.

Habitat in Islandia (*prope fontem* Geiſer,) *in* Suecia *fodina* Grengie, *in* Hungaria (*prope* Ujbanga,) *diaphanus, utplurimum albus, interdum flaveſcens aut rubellus, ſæpe ex cryſtallis exilibus, pyramidem tetraedram duplicem referentibus in cruſtam cohærentibus conſtans. An diſtincta ſpecies?*

fragile. 12. Q. formæ communis, textura feſtucas referens, ſponte non in fragmenta ſecedens.

Syſtem. nat. I. *p.* 149. *n.* 4. XII. 3. *p.* 66. *n.* 4. Quartzum (opacum) rupeſtre ſubopacum.

Wall. min. 102. Quartzum opacum fragile & rigidum.

Wall. ſyſt. min. I. *p.* 211. *n.* I. Quartzum fragile rigidum, facie granulari.

Cronſt. min. §. 51. B. Quartzum purum textura granulata.

β) Syſtem. nat. I. *p.* 149. XII. 3. *p.* 65. *n.* 3. *Muſ. Teſſin.* 6. Quartzum (lacteum) rupeſtre album diaphanum.

Waller. miner. 98. *Syſt. min.* I. *p.* 213. Quartzum ſolidum opacum duriſſimum aqueo-lacteum.

Habitat in rupibus, *fiſſuris* montium, *quas explet, nunc ſubopacum, nunc diaphanum, rarius ſemipellucidum, utplurimum album, ſæpius lacteum, interdum dilute vireſcens aut rubrum.*

Praſius. 13. Q. viride diaphanum textura feſtucas rudiores referens.

Wall. ſyſt. min. I. *p.* 279. *n.* 18. Achates pellucida nebuloſa virideſcens

Cronſt. miner. §. 73. 2. *α.* Smaragdmatt.

Habitat vagum aut paraſiticum in Ægypto, Sileſia (*prope* Coſemüz) Bohemia (*in* Mummelgrunde *ad* Iſarum) Saxonia (*prope* Breitenbrunn & Scheibenberg,) & Franconia (*prope* Steinheide,) *colore propius nunc ad ſmaragdum, nunc ad porrum, nunc ad piſtacias, nunc ad olivas accedens, rarius cæruleſcens aut venis maculiſve cæruleſ-*

centibus, albis, rubris, fuſcis pictum, nunc formæ communis, nunc forma pyramidum hexaedrarum, rarius forma priſmatum hexaedrorum pyramide hexaedra terminatorum, nunc forma tabularum hexaedrarum ſeriatim in priſma hexaedrum aggregatarum, polituram haud mediocrem admittens, & a multis inter gemmas relatum.

pingue. 14. Q. formæ communis contactu pinguiuſculum, texturæ ad minutim conchaceam accedentis, in fragmenta ſponte non ſecedens.

α) album.

a) pellucidum.

Syſt. nat. I. *p.* 149. Quartzum aqueum.

Syſt. nat. XII. 3. *p.* 65. *n.* 1. *Muſ. Teſſin.* 6. Quartzum (hyalinum) rupeſtre hyalinum pellucidum.

Wolt. min. 14. Quartzum diaphanum.

Waller. min. 97. *ſyſt. min.* 1. *p.* 212. *n.* 3. Quartzum ſolidum pellucidum.

Cronſt. min. §. 51. 1. A. *α.* Quartzum purum, particulis impalpabilibus, ſuperficie polita diaphanum.

Carth. min. 20. Quartzum informe diaphanum.

b) diaphanum.

Wall. ſyſt. min. 1. *p.* 212. *n.* 2. Quartzum ſolidum attactu pingue, facie nitente.

Cronſt. min. §. 51. 1. A. *β.* Quartzum parum, particulis impalpabilibus, ſuperficie polita, album.

c) tinctum.

Syſt. nat. I. *p.* 149. *n.* 3. XII. 3. *p.* 65. *n.* 2. Quartzum (coloratum) rupeſtre tinctum.

Wall. min. 99. Quartzum ſolidum opacum coloratum.

Wall. ſyſt. min. 1. *p.* 213. *n.* 5. Quartzum ſolidum coloratum.

Habitat ubique terrarum, *nitore quoque ſæpius pinguedinem referens, non raro acus apice tentatum, in tenebris ſcintillas lucidas ſpargens, variis pelluciditatis gradibus conſpicuum metallorum calcibus nativis minerisque, frequentiſſime ferri, rarius cupri, magneſiæ, cobalti, hydrargyri aut argenti nigro, fuſceſcente,* (e gr. *prope* Rabenſteim *in* Bavaria, *prope* Oberſteinbach *in* Franconiæ *finibus*) *roſeo, rubro, cæruleo, luteo, viridi, margaritaceo, cinereo, fumi colore perfuſum aut arbuſcularum imaginibus pictum.*

tabulare. 15. Q. texturæ conchaceæ cryſtallis tabularibus.
Hoffmann bergm. Journ. 1788. I. *p.* 274.
v. Born. ind. foſſ. 2. *p.* 91.
Habitat in Hungaria (*prope* Schemniz) & Saxonia (*prope* Freyberg,) *utplurimum album , rarius obſcure vireſcens , tabulis raro triedris , frequentius rhombicis.*

cubicum. 16. Q. texturæ conchaceæ, cryſtallis cubicis ſæpiſſime intus cavis.
α) faciebus quadratis.
v. Born. ind. foſſ. I. *p.* 21.
Hoffmann bergm. Journ. 1788. I. *p.* 275.
Karſt. Lesk. Mineralkab. I. *p.* 104.
β) faciebus rhombicis.
v. Born. ind. foſſ. 2. *p.* 89.
Karſt. Lesk. Mineralkab. I. *p.* 104.
Habitat α) *in* Suecia (*prope* Helſſekulle) Hungaria (*prope* Cremniz & Schemniz ,) & *in* Saxonia. (*prope* Schneeberg,) β) *in* Bohemia *prope* Mies) & *in valle* Sabaudiæ Bijoux, *formam a cryſtallo alterius generis nactum , cujus fatiſcentis locum occupavit aut cavitatem internam explevit, aut quam quartzi materies ſenſim indurata obduxit , hinc cryſtallo priori fatiſcente atque eluta cavum , cavitate interna, non raro quoque ſuperficie externa quartzo pyramidali obſeſſa, cryſtallis utplurimum aggregatis & minoribus , albis canis , margaritaceis aut ex fuſco rubris , pellucidis , diaphanis vel ſubopacis.*

octaëdricum. 17. Q. texturæ conchaceæ , pyramide duplici-tetraëdra.
Syſt. nat. XII. 3. *p.* 102. *n.* 4. Alumen (quartzoſum) lapidoſum quartzoſum extus nigrum.
Hoffmann bergm. Journ. 1788. I. *p.* 275.
Habitat in Saxonia *prope* Schneeberg , *canum , margaritaceum aut ex fuſco rubrum , formam ſuam eadem ratione nactum , qua cubicum , crebro intus cavum.*

triedrum. 18. Q. texturæ conchaceæ , pyramide triedra ſimplici.
v. Born ind. foſſil. 2. *p.* 88. 89.
Habitat in Suecia (*prope* Heslekulle) *et in* Saxonia (*prope* Schneeberg ,) *cryſtallis aggregatis , ſæpe inanibus , interdum pellucidis , rufeſcentibus aut albis.*

pyramidale 19. Q. texturæ conchaceæ pyramide hexaëdra ſimplici tranſverſim ſtriata.

Wern. Ueberſ. v. Cronſt. Mineral. p. 110. 113.
v. Born. ind. foſſ. 1. *p.* 22.
Hoffmann bergm. Journ. 1788. 1. *p.* 268. 273.
Karſt. Lesk. Mineralkab. 1. *p.* 102. 103.

α) pyramide perfecta.
v. Born ind. foſſ. 1. *t.* 2. *f.* 10.

β) pyramide ad apicem truncata.
v. Born. ind. foſſ. 1. *t.* 2. *f.* 2.

γ) pyramide ad apicem altera hexaëdra aucta.

δ) pyramide ad apicem & baſin altera hexaëdra aucta.
Habitat in Helvetia, *in* Ducatu Bipontino, Hungaria (*prope* Schemniz,) Sileſia (*prope* Prieborn & Krummendorf,) Bohemia (*prope* Przbram,) Saxonia (*prope* Geyer, Mutſchen, Gersdorf, Freyberg, & Shneeberg,) Hercynia (*prope* Andreasberg,) Anglia (*prope* Briſtol,) *rarius opacum, quam pellucidum, creberrime album, interdum pallide rubrum, flaveſcens aut ex rubro flaveſcens, cryſtallis utplurimum ingranorum renis gemmæ formam aggregatis, nonnunquam cavæ chalcedonii ſphæræ incluſis.*

Pſeuda- 20. Q. texturæ conchaceæ pyramide hexaëdra duplici non ſtriata.
damas.

α) pyramide perfecta. Fig. 3.
Syſt. nat XII. 3. *p.* 84. *n.* 2. ε. *Muſ. Teſſin.* 30. *n.* 1. Nitrum (Cryſtallus) cryſtallis acaulibus utrinque pyramidatis.
Waller. ſyſt. miner. 1. *p.* 218. *n.* 9. c. Cryſtallus montana utrinque accuminata ſine priſmate.
v. Born ind. foſſ. 1. *p.* 23.-25. 2. *p.* 90. 91.

β) baſeos communis marginibus truncatis. Fig. 2.
a) regulari.
Syſt. nat XII. 3. *p.* 84. *n.* 2. δ. Nitrum (Cryſtallus) cryſtallis ſubacaulibus utrinque pyramidatis.
b) faciebus omnibus inæqualibus.
v. Born ind. foſſ. 1. *p.* 25. *t.* 2. *f.* 13. Quartzum cryſtalliſatum dodecaëdrum, planis irregularibus.
c) baſi communi obliqua.

γ) pellucidum.
Bocc. muſ. t. 304. Iris.
a) particulis opacis incluſis.

δ) opacum.
Habitat in Hungaria, *prope* Felſobanya, Shemniz & (*potiſſimum*,) *in comitatu* Marmoros, *in* Carniolia (*in montibus* Slivenza,) Bohemia (*prope* Schlakenwald & Ratiborziz,) *in* Luſatia *ſuperiori in* Saxonia (*prope* Freyberg & Schneeberg,) *in* Hercynia (*prope* Stolberg, Lauten-

thal, Wildenmann,) *in* Ducatu Bipontino, (*prope* Berſchweiler,) *in* Anglia (*prope* Briſtol Buxton *& in provinciis* Cornubia (Northumberland.) *& in* Jemtia Sueciæ, *creberrime album, interdum rufeſcens aut nigreſcens, rarius intus cavum, cryſtallis minoribus, non raro liberis, crebro quoque adnatis & inter ſe cohærentibus, in renis interdum aut gemmæ formam aggregatis.*

Cryſtallus. Bergkriſtall. 21. Q. album pellucidum, texturæ conchaceæ, priſmate hexaedro tranſverſe ſtriato.

Syſt. nat. I. *p.* 163. *n.* 2. XII. 3. *p.* 84. *n.* 2. *Muſ. Teſſin.* 30. *n.* 10. Nitrum lapidoſum quartzoſum octdecaedrum hyalinum.

Waller. miner. 104. *Scheuchz. it.* 243. *t.* 6. *Welſch hecaſt.* 1. *p.* 54. *Worm. muſ.* 99. *Wolff. haſſ. t.* 1. *f.* 1. 4. 6. Cryſtallus hexagona non colorata.

Waller. ſyſt. miner. 1. *p.* 217. *n.* 9. Cryſtallus montana hexagona pellucida aquea.

Cronſt. miner. §. 52. 2. δ. Quartzum cryſtalliſatum diaphanum aqueum.

Gesn. figur. 21. & 18. *f.* 1. 2. *Rumpf. muſ. t.* 52. *f.* 5. 3. 4. Cryſtallus montana.

α) priſmate oblique truncato.

v. Born ind. foſſ. 2. *p.* 89. *t.* 1. *f.* 4. Quartzum cryſtalliſatum, columna hexaedra oblique truncata.

β) priſmatis ſine alterutro in pyramidem triedram terminato.

v. Born. ind. foſſ 2. *p.* 89. Quartzum cryſtalliſatum, columna hexaedra tranſverſim crenata, apice triedro.

Karſt. Lesk. Mineralk. 1. *p.* 102.

γ) priſmatis ſine alterutro terminato in pyramidem hexaedram non ſtriatam.

Waller. ſyſt. miner. 1. *p.* 217. *n.* 9. a. Cryſtallus montana apice unico.

a) duobus priſmatibus communem. *Andr. Br. a. d. Schweiz. p.* 55.

b) duplicem. *Born ind. foſſ.* 1. *t.* 2. *f.* 9. *Andr. Br. a. d. Schweiz. p.* 53.

c) regularem.

d) faciebus alternis majoribus.

e) facie una omnes reliquas ſuperante. *Andr: Br. a. d. Schweiz. t.* 11. *f.* h.

f) faciebus omnibus inæqualibus.

δ) priſmatis ſine utroque terminato, in pyramidem hexaedram non ſtriatam. Fig. 1.

Waller. ſyſt. miner. I. *p.* 216. *n.* 9. b. Cryſtallus montana utrinque acuminata.

a) faciebus æqualibus.

b) faciebus inæqualibus.

ε) priſmatis marginibus rectis.

ζ) priſmatis marginibus omnibus aut nonnullis baſin verſus extrorſum flexuoſis.

Cryſtallus ventricoſa.

η) priſmatis faciebus omnibus æqualibus.

ϑ) priſmatis faciebus binis oppoſitis multo latioribus. Fig. 4.

Syſt. nat. XII. 3. *p.* 84. *n.* 2. *β. Muſ. Teſſin.* 24. *n.* 15. Cryſtallus lateribus 2 oppoſitis latioribus.

v. Born ind. foſſil. 1. *p.* 21. 2. *p.* 89. Quartzum cryſtalliſatum parallelopipedum.

ι) priſmatis faciebus omnibus inæqualibus.

κ) cryſtallo ſolida.

λ) cryſtallo intus cava.

Syſt. nat. XII. 3. *p.* 85. *n.* 4. Nitrum (inane) lapidoſum quartzoſum cavum.

Amoen. acad. I. *p.* 478. *n.* 14. *t.* 16. *f.* 12. Cryſtallus nitriformis quartzoſa aggregata fiſtuloſa.

Waller. miner. 108. *n.* 4. *ſyſt. miner.* I. *p.* 218. *n.* 9. d. Cryſtallus montana cavitate hexangulari.

a) vacua.

b) aeris bullam, aquæ guttam, cryſtallum minorem, alia foſſilia includente.

μ) cryſtallo craſſiori priſmati tenuiori inſidente.

v. Born ind. foſſil. 1. *p.* 22. *t.* 2. *f.* 4. 2. *p.* 89. 90. Quartzum cryſtalliſatum clavatum.

ν) cryſtallo tenuiori priſmati craſſiori inſidente.

v. Born ind. foſſ. 1. *p.* 23. *t.* 2. *ſ.* 5. Quartzum clavatum pyramide minore columnæ craſſiori adnata.

ξ) priſmati tenuiori, globulis binis inæqualibus intermediis pyramide duplici latiori ſuperimpoſita.

v. Born ind. foſſ. 1. *p.* 23. *t.* 2. *f.* 6. Quartzum pyramide hexaedra craſſiore columnæ nodoſæ impoſita.

ο) cryſtallis ſolitariis.

a) liberis.

b) baſi adnatis.

Expectabunt nobiſcum eruditi, quibus argumentis atque experimentis Cl. *Minervini (apud* Candida *ſulla* formaz-*del molybdeno. N.* 1785. *p.* 53.) *demonſtraturus ſit, quartzum perinde ac micam & talcum ex phoſphori acido & terra ſilicea conflari.*

π) cryſtallis geminis ternisve.
Zwillings-Trilling kryſtall.
a) baſi priſmatis utriuſque cryſtalli cohærente.
Sceptercryſtall.
b) perlatus cohærentibus.
c) ſeſe mutuo perforantibus.
ρ) aggregatis.
Syſt. nat. XII. 3. *p.* 84. *n.* 2. ζ *Amoen. acad.* I. *p.* 477. *n.* 10. *t.* 16. *f.* 6. *Muſ. Teſſ.* 32. *n.* 11, 12.
a) ſeriatis.
b) faſciculatis.
c) convergentibus. *v. Born ind. foſſ.* I. *t.* 2. *f.* 16.
d) decumbentibus.
e) cryſtallum majorem aut aliud foſſile aculeorum echini ad inſtar obſidentibus.
f) imbricatis.

Habitat innumerabili magnitudinis, formæ, combinationis, pellucidatis, in eadem ſæpe cryſtallo, potiſſimum paulo majori, diverſæ varietate, interdum cruſta opaca chloritæ, argillæ, pyritæ, ochræ ferri, obductum aut corpora minus pellucida, micæ, hornblendæ miculas, actinoti, ſcorli ſpicula, pyritæ particulas includens per omnem terrarum orbem, *magnitudine eminens in antris montium* grandævorum Sabaudiæ, Helvetiæ, Carpathicis, Sileſiæ, Bohemiæ, Saxoniæ, &c. *ſuperficie interdum aſpera aut quaſi carioſa.*

Pſeudo-gemma. 22. Q. tinctum pellucidum, texturæ conchaceæ, priſmate hexaedro transverſe ſtriato.
Syſtem. nat. I. *p.* 163. *n.* 3. XII. 3. *p.* 85. *n.* 3. Nitrum (Fluor) lapidoſum quartzoſum, octdecaedrum.
Cronſt. miner. §. 52. D. 2. α. β. Quartzum cryſtalliſatum
Wolt. min. 13. Cryſtallus tincta.
Wall. ſyſt. min. I. *p.* 220. *n.* 10. Cryſtallus montana hexagona clara colorata.
Morrion. α) nigricans. *Baum. min.* I. *p.* 232. *n.* 2.
Rauchtopas. β. caryophyllinum. *Wall. ſyſt. min.* I. *p.* 222. *n.* 10. h.
Pſeudorubinus. γ. rubrum. *Wall. min.* 105. *ſyſt. min.* I. *p.* 221. *n.* 10. a. *Baum. min.* I. *p.* 320.
Pſeudohyacinthus. δ. fulvum. *Baum. min.* I. *p.* 235. *Wall. ſyſt. min.* I. *p.* 222. *n.* 10. e.
Citrinus. ε. flavum.

Baum. min. I. *p.* 231. *Wall. ſyſt. min.* I. *p.* 222. *n.* 10. d. Pſeudotopazius.

Pſeudo-chryſolithus. ζ. pomaceum. *Baum. min.* I. *p.* 236. *Wall. ſyſt. min.* I. *p.* 222. *n.* 10. g.

Pſeudo-ſmaragdus. η. gramineum. *Wall. ſyſt. min.* I. *p.* 222. *n.* 10. f.

Pſeudo-beryllus. ϑ. cyaneum. *Baum. min.* I. *p.* 236.

Pſeudo-ſapphirus. ι. cæruleum. *Baum. min.* I. *p.* 231.

Habitat cum cryſtallo, β. & ε. *reliquis frequentius, & inſignis quoque interdum magnitudinis, omnes varietates pro gemmis hinc inde veniunt, a quibus tamen longe minori duritie & ſplendore, diverſa penitus cryſtallorum forma dignoſci facile poſſunt.*

Amethyſtus. 23. Q. violaceum, texturæ formæ pelluciditatis variæ.

Syſt. nat. XII. 3. *p.* 85. *n.* 3. δ. Nitrum (Fluor) violaceum. *Juſt. min.* 380. *Vog. miner.* 142. *Baum. miner.* I. *p.* 235. Amethyſtus.

Cronſt. min. §. 52. D. 2. γ.

Wall. ſyſt. min. I. *p.* 221. *n.* 10. b. Cryſtallus colorata violacea.

Habitat in Hungariæ (*prope* Schemniz,) Sileſiæ, comitatus Glaz, Bohemiæ, Saxoniæ (*prope* Wieſenbad, Drechbach, Marienberg, Heidelberg, Schneeberg, Wolkenſtein, Cunersdorf, Schlotwiz & Halsbach,) Palatinatus & Ducatus Bipontini, Sueciæ, novæ Hiſpaniæ, Zeylonæ *montibus ac fodinis, nunc vagum, fruſtis rotundatis, nunc adnatum, ſæpe cavis chalcedonii globorum incluſum, formæ communis aut forma pyramidum ſimplicium hexaedrarum, quarum baſis non raro priſmatis hexaedri oblique ſtriati veſtigio aucta eſt aut evidentiori priſmate hexaedro ſuſtinetur, colore violaceo nunc ſaturatiori, nunc dilutiori in eadem ſæpe cryſtallo diverſo, interdum in lacteum cinereum, rubrum, fuſcum, rarius in pomaceum aut olivaceum vergente, aut vario, nunc pellucidum, nunc ſemipellucidum, nunc diaphanum, texturæ alias conchaceæ, alias feſtucariæ, alias divergenti-fibroſæ, ſæpe ſponte in fragmenta anguloſo-cruſtoſa, aut granularia, aut in bacillos ſecedens, ponderis ſpecifici interdum* = 2750 : 1000.

Pſeudo-cryſtallus. 24. Q. opacum priſmate hexaedro utroque aut alterutro fine in pyramidem hexaëdram terminato.

Syſtem. nat. XII. 3. *p.* 85. *n.* 3. 2. Nitrum (Fluor) opacum.

Cronſt. min. §. 52. D. 1. Cryſtallus montana opaca.

Wall. ſyſt. min. 1. *p.* 216. *n.* 8. Quartzum rude cryſtalliſatum.

Habitat in Hungaria, Carniolia, Bohemia, Saxonia, Suecia, Barbaria, *cryſtallis nunc liberis, nunc adnatis, griſeis, variegatis, nigris, lacteis, rubris.*

53. CHALCEDONIUS. Ex terra ſilicea, pauciſſima aluminari ($\frac{4}{25}$–$\frac{1}{60}$) interdum quoque ($\frac{1}{10}$) calcaria, & ferreæ calcis veſtigio conſtans.

Durus, leviuſculus, intus nitens in fragmenta indeterminata marginibus acutis diſſiliens, compactus, in aëre non fatiſcens, texturæ magis minusve perfecte conchaceæ, nunquam opacus, tenax, polituram egregiam admittens, utplurimum formæ communis.

Ignis violentiam eludens.

Cacholonius. 1. Ch. lacteus ſubdiaphanus ignis vi opacus.

Cronſt. min. §. 57. 3. *a* Kachelong.

Wall. ſyſt. min. 1. *p.* 272. *n.* 13. Achates opalina tenax fractura inæquali.

Habitat vagus in & ad Buchariæ & Mongoliæ *fluviis, in inſulis* Feroë & Islandia, *genuini ſtratis incluſus,* Palatinatu, *Calmuccis ad formanda ex eo ſimulacra atque imagines inſerviens.*

genuinus. 2. Ch. cinereus texturæ planæ, formæ communis, non ſponte in fragmenta ſecedens.

Syſt. nat. XII. 3. *p.* 69. *n.* 8. Silex vagus ſubdiaphanus cornei coloris, concentrice varius.

Cronſt. miner. §. 57. 3. γ. *Baum. min.* I. *p.* 252. Chalcedonius.

Waller. miner. 80. *ſyſt. min.* I. *p.* 275. *n.* 15. Achates vix pellucida nebuloſa, colore griſeo mixta.

Habitat nunc vagus, nunc amygdalitæ innidulans, nunc achatæ partem potiſſimam conſtituens, rarius nunc globi cavi intus cryſtallis alius generis referti figura in venis per montium ſtrata reptantibus ad Nili *ripas in* Ægypto, *in* Zeylon, *& reliquis* Orientis *partibus, in* Sibiria, *inſulis* Feroë, Islandia, Scania, *in* Saxonia *ſuperiori (prope* Chemniz, Mutſchen, Planiz, Gersdorf & Freyberg) *& inferiori(prope* Ilefeld & Brunsvicam,)*& in* Thuringia (*ad montem* Schneekopf,) Palatinatu *& reliquis terris* Rhenanis, Carinthia, Franconia, Bohemia, Sileſia(*prope* Bunzlau & Groswaldiz,) Hungaria (*prope* Caſchau, Boinick) Pedemontio, Hetruria, *alba, colore nunc margaritaceo, nunc infumato, nunc ex flaveſcente, vireſcente aut cæruleſcente cinereo, utplurimum ſemipellucidus, rarius diaphanus, ſuperficie utplurimum inæquali, textura interdum ad conchaceum accedente, rarius ad feſtucariam.*

cæruleus. 3. Ch. cæruleus, texturæ planioris ſemipellucidus, formæ communis non ſponte in fragmenta ſecedens.

Habitat in inſulis Feroë & Islandia, Scotiæ *littora*, Saxonia (*prope* Rochliz,) Bohemia, Palatinatu, Ducatu Bipontino, Hungaria, Tranſylvania, *colore nunc magis ad cinereum aut lacteum, nunc propius ad cæruleum accedente, nunc inter violaceum & lavendulaceum intermedio aut ſapphirino, ceterum genuino ſimilis.*

niger. 4. Ch. niger, luci obverſus obſcure ſanguineus, texturæ planioris, ſubdiaphanus.

Werner Ueberſ. v. Cronſt. p. 139.

Hoffmann bergm. Journ. 1787. I. *p.* 283.

Habitat in Saxonia *prope* Chemniz, *porphyrio innidulans.*

fuſcus. 5. Ch. fuſcus texturæ nunc planioris, nunc conchaceæ diaphanus.

Wall. ſyſt. min. I. *p.* 274. e. Carneolus fuſcus.

Habitat ad Sibiriæ *fluvium* Tom, *vagus*, *in* Saxonia *prope* Chemniz *porphyrio innidulans*.

luteus. 6. Ch. luteus, texturæ ex plana in conchaceam vergentis.
Waller. ſyſt. miner. I. *p.* 273. *n.* 14. d. Carneolus flaveſcens.
Habitat in Sibiriæ *fluvio* Tom *vagus*, *in* Zeilona, Hungaria (*in valle* Brunova *montibus* Carpathicis *contermina*,) Saxonia (*prope* Gersdorf & Chemniz) *colore propius nunc ad vini*, *nunc ad ceræ*, *nunc ad mellis tinctum accedente*.

Carneolus. 7. Ch. ſanguineus ſemipellucidus, texturæ conchaceæ.
Syſt. nat. XII. 3. *p.* 69. *n.* 9. Silex vagus diaphanus unicolor ruber.
Waller. miner. 79. *ſyſt. miner.* I. *p.* 273. *n.* 14. *Cronſt miner.* §. 58. *α*. *Baum. miner.* I. *p.* 251. Carneolus.
Woltersd. mineral. 14. Corneus lapis diaphanus polituram admittens ruber.
β) *Syſt. nat.* I. *p.* 197. XII. 3. *p.* 179. *n.* 3. *Muſ. Teſſin.* 80. *n.* 5. Aetites (Hæmachates) ſiliceus embryonibus ſixis cryſtallinis nitri quartzoſi.
Breyn monogr. Lipſ. 1722. 4. Melo montis Carmel.
Imper. nat. 740. *Myl. ſax.* 2. *p.* 5. Uterus cryſtallinus.
Habitat in Oriente, e. g. Zeylon, Sibiria, *ad fluvios* Tom, Jeligna, Aijan & Ologoca, Armenia, Palæſtina, Ægypto, Sileſia, Bohemia (*prope* Tarnau,) Luſatia (*prope* Kœnigsbrück,) Saxonia (*prope* Chemniz & Rochliz) & Palatinatu, *colore nunc dilutiori*, *nunc ſaturatiori*, *nunc æquabili*, *nunc inæquabili*, *utplurimum ſemipelucidus*, *rarius diaphanus*, *crebrius nubeculis turbidus*, *frequentiſſime*, *formæ communis*, *rarius globi intus cavi & quartzi cryſtallis referti forma conſpicuus*.

ſardus. 8. Ch. pallidus punctis guttisque ſanguineis varius.
Syſt. nat. XII. 3. *p.* 68. *n.* 5. Silex vagus, corticeo ochraceo ſubdiaphanus intricato variegatus.
Cronſt. mineral. §. 60. *δ*. Gemma divi Stephani.
Karſt. Lesk. Mineralkab. I. *p.* 145. Punctagat.
Waller. ſyſt. miner. I. *p.* 274. *n.* 14. f. Carneolus albeſcens punctulis rubris.
Habitat in India, Sardinia, Palatinatu (*prope* Oberſtein,) *Margraviatu* Badenſi *nunc cinereus*, *nunc lacteolus*, *rarius fuſcus*.

dendriticus 9. Ch. pallidus arbuſcularum imaginibus ſaturatioribus pictus.
Cronſt. miner. §. 59 β. & §. 60. γ. Mochus, Pierre de Mocca.
Waller. ſyſt. miner. I. *p.* 285. *n.* 22. l. Achates figurata.
Habitat in inſula Zeylon, Sina, Arabia, Islandia, Normannia, Palatinatu Rhenano, *Ducatu* Bipontino, *albus vel cinereus, imaginibus nigris, fuſcis, rubris aut viridibus, magni, potiſſimum in* Oriente, *æſtimatus.*

maculatus. 10. Ch. maculis colore & pelluciditatis gradu diverſis inſignitus.
Habitat in inſulis Zeylon, *Ducatu* Bipontino, Feroe & Palatinatu rhenano (*prope* Oberſtein,) e. g. *vini colore conſpicuus maculis obſcurioribus, margaritaceus aut et luteo fuſcus annullis lacteis, lacteus, maculis nigris aut rubris ſanguineus maculis fuſcis aut lacteis, et cinereo, gramineo & olivaceo aut ex fuſco, ruſeſcente & lacteolo colore varius.*

faſciatus. 11. Ch. faſciis colore & pelluciditatis gradu diſtinctis.
Habitat in inſulis Zeylon, Feroe & Islandia, Bohemia, Saxonia (*prope* Schlotwiz, Palatinatu rhenano (*prope* Oberſtein) & *Ducatu* Bipontino, *nunc cinereus ſubpellucidus faſciis lacteis diaphanis, rarius roſeis aut viridibus, nunc cæruleſcens aut ſanguineus faſciis albis cinereisve, anguſtioribus, latioribus, æqualis, inæqualis latitudinis, parallelis confluentibus, rectis angulofis, undulatis.*

Onix. 12. Ch. in fragmenta concentrice cruſtoſa colore & pelluciditatis gradu diverſa ſecedens.
Syſt. nat. XII. 3. *p.* 67. *n.* 7. Silex vagus ſtratis diverſicoloribus.
Cronſt. miner. §. 56. *Baum. miner.* I. *p.* 253. Camehuja, Memphites.
Waller. miner. 81. *ſyſt. miner.* I. *p.* 276. *n.* 16. Achates vix ſemipellucida faſciis & ſtratis diverſe coloratis ornata.
β) *Cronſt.* §. 59. 5. α. Sardonyx.
Habitat in Oriente, *ad fluvium* Tom Sibiriæ, *rarius in* Sileſia, Bohemia, Luſatia (*prope* Kænigsbrück,) Saxonia (*prope* Zwickau,) & *Ducatu* Bipontino, *fragmentis nunc tenuioribus, nunc craſſioribus, colore nunc cinereo & nigro, nunc albo, carneo & nigro, nunc ſanguineo & albo,* (Sardonix,) *nunc albo et cinereo* (Chalcedonix,) *cereo & melleo, alternantibus, congenerum fere duriſſimus, ignis vi color & exuens & in fragmenta diſſiliens, inter gemmas ſculptas Veterum frequens.*

13. Ch.

ſtillatiti- les. 13. Ch. ex aqua ejus principiis gravida præcipitatus.
α) includens aut incruſtans alia corpora.
a) lichenes & alia vegetabilia. *Ferber bergmænn. Nachr. &c. p. 75. v. Born. ind. foſſ. 1. p. 28.*
b) cryſtallos, hinc cryſtallorum facie apparens. *Bruckmann chem. Ann.* 1786. 2. *p.* 488. & 1790. 1. *p.* 99. *Karſt. Lesk. Mineralkab.* 1. *p.* 118.
c) alia foſſilia. *Karſt. Lesk. Mineralkab.* 1. *p.* 117.
β) globoſus, globis undique nodoſis cavis.
γ) reniformis.
δ) botryoides.
ε) cylindricus, cylindris.
a) ſolidis.
b) intus cavis.

Habitat in inſulis Feroë, & Islandia *in montibus* giganteis Bohemiæ, *in* Saxonia (*prope* Schneeberg, Gersdorf, Freyberg,) *in* Thuringia (*prope* Hohenſtein,) *in Ducatu* Brunsvicenſi, Palatinatu rheuano, & *vicinis terris, in* Franconia (*principatu* Baruthino,) Carinthia (*prope* Huttenberg, Hungaria (*prope* Boinick) αa) *in comitatu* Grumbacenſi *ad* Rhenum, & *in* Hungaria (*prope* Lehotca *ad* Cremniz,) αb) *in* Tranſilvania, Saxonia (*prope* Freyberg,) Alvernia Galliæ, *textura interdum ad fibroſam accedente.*

cryſtallinus. 14. Ch. cæruleſcens, forma priſmatum hexaedrorum divergentium. *v. Fichtel von Karpath. p.* 138.
Habitat in Tranſilvaniæ *valle prope* Tatareſchol, *jaſpidi luteæ involutus.*

viridis. 15. Ch. ſemipellucidus texturæ planioris viridis.

Habitat rarior in inſulis Feroë, *colore nunc ad gramineum, nunc ad æruginoſum propius accedente.*

Chryſopraſus. 16. Ch. viridis intus vix nitens ſubſemipellucidus, texturæ planioris.
Syſt. nat. XII. 3. *p.* 85. *n.* 3. η. Nitrum (Fluor) viride pallidius.
Cronſt. miner. §. 46. ζ. Chryſopras.
Lehmann act. Berol. ad 1755. *p.* 200.

Habitat aliis foſſilibus, in ſtrata diſpoſitis innidulans non adnatus in Sileſia (*prope* Gracche & Coſemuz, Bohemia (*prope* Tarnau, & *in* Mummelgrund *ad* Iſaram & Weſtphalia (*ad montem* Altenberg *prope* Stachlau,) *rarius*

duriuſculus, utplurimum duritie ad ſmaragdum accedens, nunc ſemipellucidus, nunc ferre diaphanus, creberrime pomaceus, rarius gramineus, dilute porraceus aut olivaceus, vel ex vireſcente cinereus, aut albus, præter conſueta chalcedonii principia calcis nicolinæ quoque pauxillum continens, cui tinctum ſuum debet.

Heliotropius. 17. Ch. diaphanus texturæ conchaceæ viridis punctis guttiſque ſanguineis opacis notatus.

Waller. ſyſt miner. 1. *p.* 300. *n.* 2. g. Jaſpis variegata obſcure viridis, punctulis rubris.

Cronſt. miner. §. 64. 1. α. Jaſpis pura viridis punctis rubris.

Habitat in Ægypto, Sibiria, Islandia, Bohemia (*ad montes* giganteos) & Franconia (*ad montem* Steinhauk *prope* Oberſteinbach,) *texturæ nunc perfectius nunc imperfectius conchaceæ, colore ſæpius porraceo, interdum dilutius viridi, vel ad æruginoſum aut olivaceum propius accedente, punctis guttiſque inſperſis majoribus vel minoribus rarioribus vel magis confertis, ſæpius etiam maculis & lineolis olivaceis vel ochraceis inſignitus.*

Chalcedonii *ſpecies fere omnes ſemigemmarum nomine multis venientes, gemmarum loco, ſigillis, ſimulacris aliis ornamenti generibus inſerviunt, gemmarum ſculptarum e Veteribus relictarum princeps materies.*

54. **ADAMAS.** Ex terra ſilicea & - - - conſtans.
Subponderoſus, duriſſimus, lamelloſus, intus nitorem egregium ſibi proprium monſtrans, in fragmenta indeterminata diſſiliens, paraſiticus, in tenebris eximie lucens, frictione excalefactus, corpora leviora trahens.
In igne crepitans, pelluciditatem exuens, tandem coruſcando in bullas & vaporem reſolutus.

Pretioſiſſimus. 1. ADAMAS.

Syſt. nat. I. *p.* 165. *n.* 6. XII. 3. *p.* 102. *n.* 6. *α. Muſ. Teſſin.* 38. *n.* 3. Alumen lapidoſum pellucidiſſimum ſolidiſſimum hyalinum.

Cronſt. miner. §. 42. A. *α.* Adamas gemma.

Vogel miner. 137. Adamas.

Juſt. miner. 376. *Baum. miner. p.* 225. Damant.

Waller. miner. 110. Gemma pellucidiſſima, duritie ſumma, colore aqueo, igne perſiſtens, octaedra turbinata.

Waller. ſyſt. miner. I. *p.* 230. *n.* 1. Gemma pellucidiſſima omnium duriſſima, pulveriſata nigreſcens.

α) forma cryſtallorum.
  a) priſmatum.
    a) hexaëdrorum.
      †) utrinque pyramide triedra terminatorum, faciebus omnibus convexis.
      ††) utrinque pyramide hexaedra terminatorum.
    b) octaedrorum.
      †) pyramide irregulari truncata terminatorum faciebus priſmatum ipſorum inæqualibus.
      ††) faciebus terminalibus in aciem exeuntibus.
  b) pyramidum duplicium.
    a) tetraedrarum.
    b) triedrarum depreſſarum ſcabrarum faciebus convexis, ad ſingulos baſeos communis angulos pyramide tetraedra auctarum.
β) forma rotundata.

Habitat in Indiæ *inſula* Borneo, *peniuſculus*, Ormus & Malacca, *regnis* Viſapur, Bengala & Golconda, *potiſſimum circa* Colur, Mengelegheri, Gadicottah, & Parteal, & *in* Faſiliæ *provincia* Serro da Frio *prope fluvium* Milhoverde, *rariſſime aggregatus, & adnatus, utplurimum vagus in arena aut humo, terra etiam ſæpiſſime obductus duritiei gradu diverſo, ſemper tamen eo, ut limam vel optimam eludat, nec niſi ſuo ipſius pulvere poliri et lævigari queat, rarius diaphanus, quam ſemipellucidus aut pellucidus, nebulis tamen, maculis, interdum glaciem aut plumam referentibus turbatus, aut rimoſus, rarius mediæ magnitudinis, nunquam inſignis, utplurimum dilute cinereus in flavum colorem nonunquam vergens, aut dilute fuſcus, crebro quoque ex luteo fuſcus, nigricans, aut calybeus, interdum citrinus, rarius roſeus, rariſſime cæruleus, viridis aut pluribus coloribus in eodem lapide conſpicuus, omnium gemmarum pretioſiſſima, luxus & fraudis materia princeps.*

ORDO VI.

TERRÆ ADAMANTINÆ.

Ex terra adamantina potiſſimum conflatæ.

55. ADAMANTINUS. Ex terra adamantina & plurima aluminari conſtans.
Duriſſimus, ponderoſus, lamelloſus, lamellis rectis tripliciter ſe ſecantibus, in fragmenta rhomboidalia diſſiliens.
Apyrus igne, quamvis aëre vitali efflato, vix emolliendus.

Corundum. 1. ADAMANTINUS. *Klaproth chem. Annal.* 1789. 1. *p.* 7. *Groſchke Bergbauk.* 1. *p.* 400.

Habitat in Sinæ, Indiæ (*prope* Bobai,) Galliæ (*præſertim* Pictaviæ) & Hiſpaniæ *granita*, *diaphanus*, *poſt polituram matris perlarum inſtar nitens, duritie ſmaragdo ſimilis, ferri retractorii nigri particulis inſperſis adeo dives, ut ipſe ſæpius in pulverem contuſus a magnete trahatur, colore cinereo, nigricante, capillorum æmulo, rarius ſpadiceo, formæ interdum communis, crebrius hexaedro-priſmatice, pulvere in* India & Sina, *ad ſcindendas & poliendas gemmas adhibito.*

ORDO VII.
TERRÆ AGGREGATÆ.

Ex terris prægreſſorum ordinum aggregatis conflatæ.

56. GRANITES. Ex partibus, quarum plures cryſtallorum forma conſpicuæ, nullo intermedio cæmento cohærentibus, ordine nullo determinato aggregatis compoſitus, texturæ potiſſimum granulatæ.

Montium primævorum, altiſſimorum incatenis cohærentibus medium conſtituentium materies præcipua & nucleus.

Durus, lente fatiſcens.

ſimplex. 1. Gr. ex feldſpato & quartzo compoſitus.
Syſt. nat. I. *p.* 187. *n.* 10. XII. 3. *p.* 75. *n.* 14. Saxum (merenſe) cotaceum ſpatoſum ruſeſcens, granis quartzoſis hyalinis.
Habitat in montibus Sabaudicis (*vagus prope* Genevam,) Helveticis (e. gr. *ad* Grimſel) Naſſavicis (*prope* Sonnenberg,) Sibiricis (*ad fluvium* Neiwa) & Scoticis (*prope* Port ſoy) *nunc hac nunc illa parte dominante, feldſpathi partibus ita interdum cum quartzo diaphano combinatis, ut litteras ſyriacas referant.*

genuinus. 2. Gr. ex feldſpato, quartzo & mica compoſitus.
Syſt. nat. I. *p.* 187. *n.* 11. XII. 3. *p.* 76. *n.* 19. Saxum ſpatoſum quartzoſum micaceumque ruſeſcens.
Cronſt miner. §. 268. 10. 2. Granites durus.
Haſſelq. it. 526. Petra Moſis.
Waller. ſyſt. miner. 1. *p.* 407. Saxum quartzo, ſpato ſcintillante & mica in diverſa proportione mixtis compoſitum.
β) fatiſcens.
Syſt. nat. XII. 3. *p.* 76. *n.* 20. Saxum (fuſorium) micaceum quartzoſum ſpatoſumque ſubfriabile.

Cronſt. miner. §. 268. 10. 1. Granites particulis conſtans parum cohærentibus.

γ) *Syſt. nat.* I. *p.* 186. *n.* 6. XIV. 3. *p.* 78. *n.* 31. Saxum ungermannicum.

δ) *Syſt. nat.* I. *p.* 186. XII. 3. *p.* 77. *n.* 26. *it. ſcan.* 165. Saxum montanum.

Habitat vulgatiſſimus in montibus primævis (*licet aliquando ſecundarius*) totius terrarum orbis, *vagus quoque in* planitiebus, *innumerabili duritiei, proportionis, diſtributionis, coloris partium conſtituentium varietate, accedentibus non raro alienis adhuc* e. g. *ſcorli, hornblendæ, granati cryſtallis ſteatitæ, amari, argillæ particulis aucta, igne violento liqueſcens, ut tamen quartzum intemeratum permaneat, feldſpato ſæpius carneo, quartzo utplurimum albo, rarius vireſcente, egregiam interdum polituram admittens, hinc jam a multis retro ſeculis architecturæ elegantiori, & variis ornamentorum generibus adhibitus.*

Syenites. 3. Gr. ex feldſpato, quartzo & horblenda compoſitus.
Plinius hiſtor. mund. l. 36. *c.* 8. Syenites.
Hoffmann. berg. Journ. 1788. 2. *p.* 506.
Karſten Lesk. Mineralkab. 2. *p.* 12.

Habitat in Ægypto, Græcia, Norwegia, Saxonia, Hercynia, Suevia, Stiria, *nunc rudius, nunc ſubtilius aut minutius granulatus, partibus, quibus conſtat, diverſiſſima proportione mixtis, quartzo & feldſpato utplurimum albis, hornblenda nigra, aut ex atro viridi.*

ſcorlinus. 4. Gr. ex feldſpato, quartzo & ſcorlo compoſitus.
Edelfeld. nov. act. Stockh. 1784. *p.* 103.
Anonym chem Annal. 1785. 2. *p.* 21. Granites baſalticus.
Habitat in Sueciæ *paſſim*, Sileſiæ (*prope* Friedeberg,) Helvetiæ *montibus.*

granaticus. 5. Gr. ex feldſpato, quartzo & granatis compoſitus.
Edelf. nov. act. Stockh. 1784. *p.* 103.
Hoepfn. Mag. fur Helv. Naturk. 1. *p.* 281.
Habitat in Sueciæ, Helvetiæ *montibus.*

viridis. 6. Gr. ex feldſpato, quartzo & amaro compoſitus.
Hoepfn. Mag. fur Helv. Naturk. 1. *p.* 281.
Habitat in Helvetia & Sabaudiæ *montibus.*

O 4

talcoſus. 7. Gr. ex feldſpato, quartzo & talco compoſitus.
Anon. chem. Annal. 1785. 2. *p.* 23.
Habitat in Auſtria *ſuperiori* (*prope* Linz).

micaceus. 8. Gr. ex feldſpato & mica compoſitus.
Sauſſ. voyag. dans les alp. 1. *p.* 183.
β) *Syſt. nat.* 1. *p.* 164. *n.* 6. *Muſ. Teſſin.* 36. Muria ſaxi ex mica ſpatoque.
Syſt. nat. XII. 3. *p.* 76. *n.* 21. Saxum (fatiſcens) ſpatoſum micaceumque ſalſum fatiſcens.
Waller. miner. 166. Saxum in aëre deliqueſcens nitroſum.
Waller. ſyſt. miner. 1. *p.* 409. *n.* 3. k. Granites fuſcus aëre deſtructibilis.
Habitat rariſſimus in Helvetia & Sileſia, *vagus prope* Genevam & Veſuvium, β) *in* Finlandia & Gotlandia.

calcarius. 9. Gr. ex feldſpato & ſpato calcario conflatus. *Gioen litolog. Veſuv. p.* 49. 51. 71.
Habitat circa Veſuvium, *fragilis, vix duriuſculus, cum acidis efferveſcens, non raro ſcorlum, aut unacum mica argillam, aut micam, aut utrumque, admixta ſibi habens; an hujus generis?*

grandævus. 37. Gr. ex mica & hornblenda compoſitus.
Syſt. nat. 1. *p.* 189. *n.* 20. XII. 3. *p.* 79. *n.* 35. Saxum micaceum ſpatoſum nigricans, particulis decuſſantibus ferreis.
Cronſt. miner. §. 267. 9. Saxum compoſitum mica & hornblenda.
β) Saxum viridi-cæruleſcens. *It. ſcan.* 21.
Habitat, rupeſtris quoque, in Helvetiæ & Sueciæ *montibus variis, in monte* Hennebergiæ, Ehrenberg, *in* Bohemia *prope* Orpar, *non raro venis ferri dives, obſure virens, utplurimum in* Sueciæ *uſtrinis* Smolandicis *ferri mineris lacuſtribus ad facilitandum fluxum additus.*

ſcorlaceus. 10. Gr. ex feldſpato & ſcorlo compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus, circa* Veſuvium, *accedente non raro mica, aut hornblenda.*

ſquamoſus. 11. Gr. ex feldſpato & hornblenda compoſitus.
Koepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus, in* Zeelandia, *accedente interdum quoque mica, aut ſcorlo.*

granati- 12. Gr. ex feldſpato & granatis compoſitus.
nus. *Gioeni litolog. Veſuv. p.* 68.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus*, *&* Seelandia, *in* Veſuvio.

nitens. 13. Gr. ex feldſpato, granatis & mica compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *tab.* 3.
Habitat in Helvetiæ *montibus.*

tricolor. 14. Gr. ex feldſpato, granatis & ſcorlo compoſitus.
Gioeni litolog. Veſuv. p. 64. 67.
Habitat circa Veſuvium, *admiſtis interdum quoque mica & olivinis.*

dichrous. 15. Gr. ex feldſpato, ſcorlo granatino & genuino compoſitus.
Gioeni litolog. Veſuv. p. 70. 75.
Habitat circa Veſuvium.

albo-fuſ- 16. Gr. ex feldſpato, ſcorlo granatino & mica compoſitus.
cus. *Gioeni litolog. Veſuv. p.* 71.
Habitat circa Veſuvium.

elegans. 17. Gr. ex feldſpato, granatis & actinoto compoſitus.
Gioeni litolog. Veſuv. p. 69.
Habitat circa Veſuvium.

micans. 18. Gr. ex feldſpato, mica & ſcorlo compoſitus.
Gioeni litolog. Veſuv. p. 73. 75.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Habitat in Helvetiæ *montibus &* Veſuviæ *nunc mica, nunc ſcorlo dominante, nunc majoribus, nunc minoribus particulis immiſtis, interdum granatis immerſis.*

lamello- 19. Gr. ex feldſpato, mica & hornblenda compoſitus.
ſus. *Hoepfn. Magaz. Helv. Naturk.* 1. *p.* 281.
Habitat in Helvetiæ *montibus, nunc hac, nunc illa dominante, particulis majoribus minoribuſve immiſta.*

cretaceus. 20. Gr. ex feldſpato mica & creta compoſitus..
Gioeni litolog. Veſuv. p. 45.
Habitat circa Veſuvium.

Gioeni. 21. Gr. ex feldſpato, granatis & hornblenda compoſitus.
Gioeni litolog. Veſuv. p. 75.
Habitat circa Veſuvium.

varius. 22. Gr. ex feldſpato, ætinoto & ſcorlo compoſitus.
Gioeni litolog. Veſuv. p. 62. 63.
Habitat circa Veſuvium *intermiſtas interdum micæ nigræ aut hornblendæ lamellas aut priſmata oſtendens.*

leucome- 23. Gr. ex feldſpato, actinoto & hornblenda compoſitus.
las. *Gioeni litolog. Veſuv. p. 63.*
Habitat circa Veſuvium.

muriati- 24. Gr. ex feldſpato, mica et amaro compoſitus.
cus. *Hoepfn. Magaz. Helv. Naturk. 1. t. 3.*
Habitat in Helvetiæ *montibus.*

ſerpen- 25. a) Gr. ex feldſpato, ſerpentino & quartzo compoſitus.
tinus. *Fichtel Karpath. p. 310.*
Habitat in Tranſilvaniæ *montibus, facile in argillam fa-tiſcens.*

Garpen- 25. b) Gr. ex quartzo dominante mica conpoſitus.
bergenſis. *Syſt. nat. I. p. 186. n. 4. XII. 3. p. 75. n. 18.* Saxum cotaceum quartzoſum album, fragmentis illinitis mica alba.
Cronſt. miner. §. 260. 2. 1. Saxum compoſitum particulis quartzoſis & micaceis diſtinctis.
β) micæ lamellis aureis vel argenteis ita inſperſis, ut politus egregio nitore refulgeat (Avanturino).
γ) *Syſt. nat. I. p. 183. n. 23. XII. 3. p. 78. n. 30.* Saxum metaliferum.
Habitat in Sueciæ (*prope* Garpenberg) *venas cupri ferens,* Sileſiæ, (*prope* Giaren, Saxoniæ, Helvetiæ *montibus* Veſuvio, β) *vagus in* Hiſpania, Saxonia (*prope* Dreſdam *ad* Albim).

bicolor. 26. Gr. ex quartzo, mica & ſcorlo compoſitus.
Hoepſn. Magaz. fur Helv. Naturk. 1. p. 281.
Habitat in Helvetiæ *montibus.*

corneus. 27. Gr. ex quartzo, mica & hornblenda compoſitus.
Hoepfen. magaz. Helv. Naturk. 1. p. 281.
Habitat in Helvetiæ *montibus.*

triplex. 28. Gr. ex quartzo, mica & granatis compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. p. 281.
Habitat in Helvetiæ *montibus.*

glacialis. 29. Gr. ex quartzo, mica & amaro compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. p. 281. 282.
Habitat in Helvetiæ & Sabaudiæ *montibus altiſſimis.*

inconſpi- 30. Gr. ex quartzo, & hornblenda compoſitus.
cuus. *Hoepfn. Magaz. Helv. Naturk. 1. p. 279.*
Habitat in Helvetiæ *montibus, etiam prope* Altenberg *in* Saxonia.

helveticus. 31. Gr. ex quartzo, hornblenda & granatis compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Habitat in Helvetiæ *montibus.*

variegatus. 32. Gr. ex quartzo, hornblenda & amaro compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Habitat in Helvetiæ *montibus.*

capillaris. 33. Gr. ex quartzo pellucido & actinoti ſpiculis compoſitus.
Herrmann chem. Annal. 1788. 2. *p.* 416. Haarſtein.
Habitat vagus in Sibiriæ vallibus uralenſibus, *prope* Genevam, *inter* Brixiam *&* Brandſol *& alibi in* comitatu Tirolenſi, *inter* Feiſtriz *&* Carnowiz Stiriæ, *inter* Borkersdorf *&* Frauenſtein *& alibi in* Saxonia, *ad montem* Fichtelberg, *egregiam polituram admittens, actinoti ſpiculis nunc viridibus, nunc flavicantibus, nunc rubellis, nunc obſcure rubris, nunc nigris.*

melaleucos. 34. Gr. ex quartzo & ſcorlo compoſitus.
Waller. ſyſt. miner. 1. *p.* 406. *n.* 1. Saxum ex quartzo & baſaltico lapide miſtum.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ, Sueciæ *montibus.*

Hoepfneri. 35. Gr. ex quartzo, hornblenda & ſcorlo compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Habitat in Helvetiæ *montibus.*

efflorescens. 36. Gr. ex quartzo, ſcorlo & amaro compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Habitat in Helvetiæ *montibus, ſale amaro efflor eſcente interdum dives.*

tirolenſis. 37. Gr. ex quartzo, ſcorlo & granatis compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Anonym. chem. Annal. 1785. 2. *p.* 22.
Habitat in Helvetiæ *&* Tirolis (*prope* Zillerthal) *montibus.*

bavaricus. 38. Gr. ex quartzo & granatis compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Anonym. chem. Annal. 1785. 2. *p.* 22.
Habitat in Helvetiæ, Sueciæ (*prope* Sunnerskog *&* Sala,) Saxoniæ (*prope* Hartmansdorf,) Auſtriæ (*prope* Goettweia,) Hungariæ,) Tirolis *&* Bavariæ *montibus vallibuſque conterminis, etiam fodina* Temeſienſi (*prope* Dogneska) *granatis rubris, quartzo cinereo aut vireſcenti, rarius gramineo.*

duriſſimus. 39. Gr. ex quartzo, granatis & amaro compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 281.
Habitat in Helvetiæ & Sabaudiæ *montibus.*

talcifer. 40. Gr. ex quartzo dominante & talco compoſitus.
Storr Alpenreiſ. 2. *p.* 278. 289.
Habitat in Vallis Tellinæ (*prope* Clavennam) & Rhætiæ (*prope* Marmels) *montibus, ille ferri ochra flaveſcens.*

ſplendidus. 41. Gr. ex quartzo & miculis pyritæ micæque ferreæ inſperſis compoſitus.
Bloch & Bruckmann Schr. berl. Naturf. 1.
Habitat vagus in Marchia Uckerana, *politus egregie nitens.*

homogeneus. 42. Gr. ex mica, hornblenda & ſcorlo compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *tab.* 3.
Habitat in Helvetiæ *montibus.*

nitidulus. 43. Gr. ex mica & hornblenda compoſitus.
Gioeni litolog. Veſuv. p. 53. 54.
Habitat prope Veſuvium *granatos non raro immerſos continens.*

Zillenſis. 44. Gr. ex mica & ſcorlo compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279. 280.
Anon. chem. Annal. 1785. 2. *p.* 23.
Habitat in Hlvetiæ *montibus, & valle* Zillerthal, *inter* Tirolin & Salzburgum *intermedia, ſcorli cryſtallis nunc majoribus, nunc minoribus, interdum electricis.*

granatifer. 45. Gr. ex mica & granatis compoſitus.
Gioeni litolog. Veſuv. p. 53.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ, Carinthiæ, Hungariæ, Saxoniæ, Sueciæ, Italiæ *montibus.*

montanus. 46. Gr. ex mica, ſcorlo & granatis compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *tab.* 3.
Habitat in Helvetiæ *montibus.*

vireſcens. 47. Gr. ex mica, ſcorlo & amaro compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *tab.* 3.
Habitat in Helvetiæ *montibus.*

radiatus. 48. Gr. ex mica & actinoto compoſitus.
Hoepfn. Magaz. Naturk. 1. *p.* 281.
Habitat in Helvetiæ *montibus, præſertim* S. Gotthardi.

olivinus. 49. Gr. ex mica & olivinis compoſitus.
Gioeni litolog. Veſuv. p. 54. 55.
Habitat circa Veſuvium.

chloroſti-ctus. 50. Gr. ex ſcorlo & olivinis compoſitus.
Gioeni litolog. Veſuv. p. 65. 66.
Habitat circa Veſuvium.

gemmaceus. 51. Gr. ex granatis & olivinis compoſitus.
Gioeni litolog. Veſuv. p. 68.
Habitat circa Veſuvium.

ſimilaris. 52. Gr. ex granatis & ſcorlo compoſitus.
Gioeni litolog. Veſuv. p. 63. 68.
Hoepfn. Magaz. Helv. Naturk. 1. *tab.* 2.
Habitat in Helvetiæ *montibus, vagus circa* Veſuvium, *admixta interdum mica.*

affinis. 53. Gr. ex ſcorlo granatino & genuino compoſitus.
Gioeni litolog. Veſuv. p. 70.
Habitat circa Veſuvium.

montium. 54. Gr. ex granatis, ſcorlo & hornblenda compoſitus.
Hoepfn. Mag. Helv. Naturk. 1. *tab.* 3.
Habitat in Helvetiæ *montibus.*

bracteatus. 55. Gr. ex granatis & hornblenda compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus.*

argentatus. 56. Gr. ex granatis, mica, & ſpato compoſitus.
Gioeni litolog. Veſuv. p. 49.
Habitat circa Veſuvium.

lamellatus. 57. Gr. ex mica & ſpato compoſitus.
Gioeni litolog. Veſuv. p. 48.
Habitat circa Veſuvium.

lucidus. 58. Gr. ex actinoto & ſpato compoſitus.
Gioeni litolog. Veſuv. p. 60.
Habitat circa Veſuvium, *an potius amygdalites?*

asbeſtinus. 59. Gr. ex asbeſto & marmore conflatus.
Gioeni litolog. Veſuv. p. 48.
Habitat circa Veſuvium, *vix hujus generis.*

57. **GNEISSUM.** Ex partibus ſæpe quoque cryſtallorum forma conſpicuis nullo intermedio cæmento cohærentibus, interdum per ſtrata alternantibus compoſitum, texturæ ſchiſtoſæ, rarius fibroſæ.

In montibus ætate ad graniteos quam proximæ accedentibus obvius, ſtratis ejus quoque ſæpius granitæ ſuperincumbentibus.

Durus, apyrus, non fatiſcens.

fornacum. 1. Gn. quartzo dominante & mica compoſitum.

Stallſten. *Syſt. nat.* I. *p.* 187. *n.* 15. XII. 3. *p.* 79. *n.* 33. Saxum arenoſo micaceum fiſſile cinereum, interſtinctis atomis quartzoſis micaceiſque.

Cronſt. miner. §. 260. Saxum compoſitum paticulis quartzoſis & micaceis.

Waller. ſyſt. miner. 1. *p.* 410. *n.* 5. Saxum quartzo & mica mixtum fiſſile.

β) *Syſt. nat.* XII. 3. *p.* 77. *n.* 27. Saxum (mareſtrandenſe) micaceum quartzoſum fiſſile, micis albis nitidiſſimis ſubimpalpabilibus.

γ) *Syſt. nat.* I. *p.* 188. *n.* 17. XII. 3. *p.* 77. *n.* 25. Saxum (Roeroſienſe) micaceum nigro micaceo alboque quartzoſo-cotaceo alternatis.

δ) *Syſt. nat.* I. *p.* 186. *n.* 8. XII. 3. *p.* 75. *n.* 15. Saxum (decuſſatum) cotaceum quartzoſum incarnatum micis ſparſis atris erectis decuſſantibuſque.

ε) *Waller. ſyſt. miner.* 1. *p.* 411. *n.* 6. Saxum quartzo & ſteatite mixtum fiſſile.

ζ) *Syſt. nat.* I. *p.* 187. *n.* 13. XII. 3. *p.* 77. *n.* 24. Saxum (tritonium) micaceum ſubfiſſile incarnatum, granis quartzoſis.

Habitat innumerabili proportionis, combinationis, diſtributionis, coloris, duritiei varietate in novæ Seelandiæ, Norwegiæ, Sueciæ, Bohemiæ, Carhintiæ, Tirolis *montibus, etiam pyrenæis, fundo fornacum fuſoriarum, architecturæ aliquando etiam elegantioris operibus egregie inſerviens.*

micaceum. Glimmerſchiefer. 2. Gn. ex mica dominante & quartzo compoſitum.
Werner. Claſſif. d. Gebirgsart. p. 10. §. 9. Voigts Br. uber Gebirgs. p. 15. n. 4. Glimmerſchiefer.
Habitat in Luſatia *&* Thuringia (*prope* Ruhla,) *hic integros montes conſtituens, argentum colore & nitore æmulans, micæ lamellis tenerimis denſe ſibi incumbentibus, egregie nonnunquam in tabulas tenues rectas fiſſile, tum tectis inſerviens, quartzo per venulas aut granula, aut ſtrata ampliora intermiſto.*

alpinum. 3. Gn. ex quartzo, mica & granatis compoſitum.
Syſt. nat. I. *p.* 187. *n.* 12. XII. 3. *p.* 77. *n.* 22. Saxum micaceum ſubfiſſile cinereum, granis granatinis quartzoſiſque.
Cronſt. mineral. §. 261. Saxum compoſitum mica quartzo & granato.
Waller. ſyſt. miner. I. *p.* 412. *n.* 7. Saxum quartzo, mica & granatis mixtum, fiſſile.
β) *Syſt. nat.* XII. 3. *p.* 77. *n.* 23. Saxum (granoſum) aceroſum ſolidum atrum, granis granatinis.
γ) *Syſt nat.* I. *p.* 187. *n.* 14. XII. 3. *p.* 78. *n.* 28. Saxum (punctatum) micaceum fiſſile incarnatum, granis granatinis.
δ) *Syſt. nat.* I. *p.* 188. *n.* 19. XII. 3. *p.* 80. *n.* 36. Saxum impalpabile micaceum quartzoſum ſubferreum, granis granatinis.
It. wgoth. 73. Saxum clangoſum.
Habitat in ſummis Europæ e. gr. Lapponiæ, Norwegiæ, Sueciæ, Saxoniæ, Luſatiæ, Sileſiæ, Bohemiæ, Moraviæ, Stiriæ, Carinthiæ, Salisburgi, Tyrolis, Helvetiæ, Sabaudiæ, *etiam* Carpathicis, *montibus, mica utplurimum argentea, nunc dominante, nunc æquabiliter diſtributa, nunc vix conſpicua, granatis crebrius rubris, quam fuſco, nunc formæ communis & inſignibus, nunc formæ cryſtallinæ minoribus, nunc minimis, nunc frequentioribus, nunc rarioribus, laminis, in quas finditur interdum undulatis, lapidis molaris loco, modo quartzum dominetur, eximie inſerviens, accedente nonnunquam ſcorlo, talco aut feldſpato nova varietate nata.*

ſcorlinum. 4. Gn. ex quartzo, mica & ſcorlo compoſitum.
Habitat in Sabaudiæ (*prope* Calhanches,) Helvetiæ (e. gr. *in monte* S. Gotthardi,) Hungariæ (*prope* Schemniz, *auri argentique venas includens,*) Bohemiæ (*prope* Ratieborziz,) Saxoniæ (*prope Geyer,*) Norwegiæ *montibus & fodinis.*

Altenbergenſe. 5. Gn. ex quartzo, mica ſcorlite compoſitum.
Habitat in Saxonia (*prope* Altenberg,) *ſtanni venas fovens.*

radians. 6. Gn. ex quartzo, mica & actinoto compoſitum.
Cronſt. mineral. §. 261. 33.
Waller. ſyſt. miner. 1. *p.* 413. *n.* 8. Saxum quartzo, mica & baſalte mixtum fiſſile.
Habitat in Jemtia Sueciæ (*prope* Handoel).

Saxonum. 7. Gn. ex quartzo, mica & feldſpato conſtans.
Werner. Claſſif. d. Gebirgsart. p. 8. §. 8. Gneiſs.
Voigt Brief. u. Gebirgsl. p. 13. *n.* 2. Gneuſz.
Habitat in Sileſiæ, Bohemiæ, Saxoniæ, Hennebergæ, Helvetiæ, Sabaudiæ *montibus*, *rarius in* carpathicis, *mica crebrius dominante, feldſpato minimam partem efficiente, ſæpius interdum fere omni in argillam fatiſcente, alias innumerabili proportionis, & coloris partium conſtituentium varietate conſpicuum.*

Bornii. 8. Gn. ex quartzo, mica & argilla compoſitum.
Born. ind. foſſ. 1. *p.* 153. 2. *p.* 147. Gneiſſum.
β) argilla martiali.
Syſt. nat. XII. 3. *p.* 74. *n.* 12. *It. ſcan.* 80. Saxum (novaculare) cotaceum albo-micaceum incarnatum ſubſtriatum.
Cronſt. miner. §. 262. 4. 1. Saxum compoſitum mica, quartzo & forſan argilla martiali, particulis diſtinctis.
Habitat in montibus matalliferis Temeſienſibus (*inter* Moldava & Saska, *prope* Dognaska,) Hungaricis (*prope* Neoſolium & Hodritſch,) Bohemicis (*prope* Catharinaberg, Orpes, Ratiborziz, Graupen, Platte & Joachimsthal,) Saxonicis (*prope* Geyer & Freyberg,) & Suecicis (*prope* Carlscrona, β) *in* Scania Sueciæ, *coticulæ loco ad acuendos enſes & cultros adhibitum.*

Jemticum. 9. Gn. ex quartzo, mica & ſteatite compoſitum.
Edelf. nov. act. Stoch. 1784. *p.* 93.
Habitat in Jemtiæ *montibus altioribus, lente fatiſcendo a congeneribus diſcrepans.*

ſpatoſum. 10. Gr. ex quartzo, ſcorlo & feldſpato compoſitum.
Anonym. chem. Annal. 1785. 2. *p.* 23.
Habitat in Saxonia *prope* Halbendorf.

11. Gn.

topaſinum. 11. Gn. ex quartzo, ſcorlo et topazio compoſitum.
Werner Claſſif, Gebürgsart. p. 15. §. 18. Topasfels.
Habitat ad Schneckenſtein *prope* Auerbach *in* Voitlandia.

comeum. 12. Gn. ex quartzo et hornblenda compoſitum.
Syſt. nat. I. *p.* 156. *n.* 4. Talcum particulis impalpabilibus lamellis parallelis.
Syſt. nat. XII. 3. *p.* 53. *n.* 8. Talcum (lamellare) lamellatum fragilli-durum glaberrimum ſubdiaphanum.
Waller. miner. 138. Comeus fiſſilis, lamellis parallelis.
Waller. ſyſt. miner. I. *p.* 358. *n.* 2. Corneus rigidus non nitens apparenter lamellis parallelis.
Hoffm. berg. Journ. 1788. 2. *p.* 507. *et Karſt. Leck. Min.* 2. *p.* 17. Hornblendſchiefer.
β) *Syſt. nat.* I. *p.* 156. *n.* 5. XII. 3. *p.* 54. *n.* 11. Talcum (Coriaceus) membranaceum flexuoſum rigidum.
Waller. miner. 136. Corneus mollior ſuperficialis contortus.
Habitat in Suecia *et* Saxonia (*prope* Voigtsberg, Dorfchemniz, Groshartmansdorf, Miltiz,) & Luſatia, *ſtrata integra efficiens, ex vireſcente atrum, aut ex atro viride, tritum ex vireſcente cinereum, duriuſculum, textura radiata, in fragmenta diſcoidea diſſiliens, micæ atomis interdum immiſtis, aut granatis.*

argilloſum. 13. Gn. ex quartzo et argilla compoſitum.
v. Fichtel Karpath. p. 275.
Habitat in montibus Carpathicis.

cotianum. 14. Gn. ex ardeſia & mica compoſitum.
Syſt nat. XII. 3. *p.* 79. *n.* 34. Saxum ſchiſtoſum fiſſile fuſcum, atomis micaceis oblique truncatum.
Cronſt. miner. §. 262. 4. 2. Saxum compoſitum mica, quartzo & forſan argilla martiali, particulis minoribus.
Waller. ſyſt. miner. I. *p.* 417. *n.* 11. Saxum ſchiſto & mica mixtum.
Habitat in Norwegia, Suecia, *duriuſculum, igne liqueſcens, incolis ad poliendos cultros inſerviens, hinc vix hujus generis.*

ſteatiticum. 15. Gn. ex ſteatite & mica conflatum.
Cronſt. miner §. 263. 5. Schneideſtein.
Storr Alpenr. 2. *p.* 269. 285. 289.
Habitat in Norwegiæ, Sueciæ, Tirolis, Rhætiæ, Bohemiæ, Hungariæ *montibus, muris fuſoriorum furnorum & ſi in tabulas tenues ſindatur, tectis, eximie inſerviens, mollis, an igitur hujus generis.*

granaticum. 16. Gn. ex ſcorlo genuino, granatis & feldſpato compoſitum.
Gioeni litolog. Veſuv. p. 64.
Habitat circa Veſuvium.

bicolor. 17. Gn. ex ſcorlo & feldſpato compoſitum.
Gioeni litolog. Veſuv. p. 72.
Habitat circa Veſuvium.

olivinum. 18. Gn. ex mica, granatis & olivino compoſitum.
Gioeni litolog. Veſuv. p. 54.
Habitat circa Veſuvium.

lucidum. 19. Gn. ex mica & hornblenda compoſitum.
v. Fichtel Karpath. p. 276. 279.
Habitat in Sueciæ *&* Carpathicis *montibus*.

triplex. 20. Gn. ex mica, hornblenda et quartzo compoſitum.
v. Fichtel Karpath. p. 276. 279.
Habitat in Carpathicis *montibus*.

ſyeniticum. 21. Gn. ex hornblenda, feldſpato & quartzo compoſitum.
v. Fichtel Karpath. p. 279.
Habitat in montibus Carpathicis.

ſquamoſum. 22. Gn. ex hornblenda & feldſpato compoſitum.
v. Fichtel Karpath. p. 279.
Habitat in montibus Carpathicis.

granaticum. 23. Gn. ex hornblenda & granatis compoſitum.
v. Fichtel Karpath. p. 246. 280. 287.
Habitat in montibus Carpathicis.

ſplendidum. 24. Gn. ex hornblenda, mica & granatis compoſitum.
v. Fichtel Karpath. p. 246. 287.
Habitat in montibus Carpathicis.

quadruplex. 25. Gn. ex hornblenda, mica, granatis & quartzo compoſitum.
v. Fichtel Karpath. p. 246. 287.
Habitat in montibus Carpathicis.

lamelloſum. 26. Gn. ex hornblenda & ſcorlo compoſitum.
v. Fichtel Karpath. p. 280.
Habitat in montibus. Carpathicis.

baſalticum. 27. Gn. ex mica & ſcorlo electrico compoſitum.
Anon. chem. Annal. 1785. 2. *p.* 23.
Habitat in valle Salisburgenſibus *&* Tirolenſibus *communi* Zillerthal.

glanduloſum. 28. Gn. ex mica & granatis compoſitum.
v. Fichtel Karpath. p. 246. 287.
Habitat in montibus Carpathicis.

durum. 29. Gn. ex mica, granatis & quartzo compoſitum.
v. Fichtel Karpath. p. 246. 287.
Habitat in montibus Carpathicis.

quartzoſum 30. Gn. ex granatis & quartzo compoſitum.
v. Fichtel Karpath. p. 246. 287.
Habitat in montibus Carpathicis.

micans. 31. Gn. ex marmore micante & mica compoſitum.
α) mica aurea per marmor ſparſa.
v. Borch. mineral. ſicil. Avanturino.
β) mica viride per ſtrata digeſta.
Ferber. Br. a. Welſchl. p. 251. Marmo Cipolino.
Habitat α) vagum in Siciliæ *antro montis* Caputo, *β) in* Græcia; *an hujus generis?*

58. PORPHYRIUS. Ex cryſtallis alterius generis foſſili formæ communis quaſi paſtæ immerſis compoſitus. Ætate, duritie, duratione, colore quam maxime varius.

a. *talcoſi.*

talcoſus. 1. P. ex talco & quartzi cryſtallis immerſis conſtans.
Storr Alpenr. 2. p. 280.
Habitat in Valle Tellina *prope* Clavennam, *argentei coloris.*

ponderoſus. 2. P. ex talco & barytide vulgari compoſitus.
Storr Alpenr. 2. p. 266.
Habitat in Valle Tellina *prope* Caſtion, *dilute virens.*

rhæticus. 3. P. ex talco, barytide & ſpato conſtans.
Storr. Alpenr. 2. p. 209.
Habitat ad montem Rhætiæ Deſpin, *thalaſſinus vel albus,*

b. *ſerpentini.*

arenarius. 4. P. ex ſerpentino & quartzi cryſtallis minoribus immiſtis compoſitus
Herrmann ural. Erzberg. 2. p. 321. Saxum ſerpentinum

Laſius Beob. üb. Harzgeb. 1. *p.* 166. ? *p.* 483. *n.* 60. Mit Sand gemiſchter Serpentinſtein.
Ferber Br. a. Welſchland. 23. *p.* 363.
Habitat in Uralenſium Sibiriæ *montium parte orientali, in montibus* Auſtriæ *interioris*, Salisburgenſibus, tyrolenſibus, genuenſibus, ſabaudicis, hercynicis (*prope* Treſenburg,) *durus, rupes & montium partem præcipuam conſtituens, micæ quoque non raro particulis inſperſis.*

aeicularis. 5. P. ex ſerpentino & ſcorli ſpiculis immerſis compoſitus.
v. Born ind. foſſil. 1. *p.* 148. Ophiter particulis baſaltinis mixtus.
Sauſſur. it. alp. 1. *p.* 105.
β) cryſtallis ſcorli ſeſe decuſſantibus Creuzſtein.
Habitat in montibus Temeſienſibus (e. gr. *prope* Saska,) Hungaricis (*prope* Schemniz,) & Stiriacis *vagus prope* Genevam, *olivaceus, cæruleſcens vel cinereus.*

granatinus. 6. P. ex ſerpentino & granatis compoſitus.
Carpent. Geogr. Churſ. p. 179.
Habitat in Saxonia *prope* Zoebliz.

ſpurius. 7. P. ex ſerpentino, ſpato et mica compoſitus.
Ferber Br. aus Welſchl. 19. *p.* 334.
Habitat in Hetruriæ *montibus* Imprunctæ *vicinis ſtrata horizontalia conſtituens, viridis, ſpato albo, mica ex vireſcenti argentea teſſulari.*

Granitone. 8. P. ex ſerpentino & feldſpato compoſitus.
Ferber Br. aus Welſchl. 19. *p.* 334.
Habitat in montibus Hetruriæ, Imprunetæ & Prato *vicinis, viridis, feldſpati albi priſmatibus immerſis varius, mica ex argenteo viridi teſſulari ut plurimum accedente, lapidis molaris loco interdum inſerviens.*

micaceus. 9. P. ex ſerpentino & micæ lamellis conſtans.
Charpent. Geogr. Churſ. p. 178.
Ferb. Br. a. Welſchl. 19. *p.* 332.
Sauſſur. it. alp. 1. *p.* 135.
β) micæ aureæ variabilis parallele & recte lamelloſæ nidulis fartus.
v. Trebra Erfahr. v. Inn. d. Geb. p. 97.
Schröt. n. Litterat. d. Naturg. 4. *p.* 232.
Herrmann ural. Erzg. 2. *p.* 323.

Habitat in montibus Hetruriæ (*prope* Impruneta & Prato,) Genuenſibus (Bocchetia & *valli* Polzevera *conterminis*,) Sabaudicis (*prope* Genevam) & Saxonieis (*prope* Zoebliz,) β) Hercynicis (Paſte,) Franconicis (Fichtelberg,) & Uralenſibus Sibiriæ.

asbeſtinus. 10. P. ex ſerpentino & asbeſti ſericeo nitore conſpicui fibris compoſitus.
Ferber Br. a. Welſchl. 19. *p.* 332.
Charpent. Geogr. Churſachſ. p. 178.
Habitat in montibus Saxoniæ, Franconiæ, Hercyniæ, Hertruriæ.

ferrifer. 11. P. ex ſerpentino & cryſtallis ferri nitidi compoſitus.
Charpent. Geogr. Churſachſ. p. 179.
Ferb. Br. a. Welſchl. 23. *p.* 377.
Sauſſ. it. alp. 1. *p.* 79.
Habitat in Saxoniæ (*prope* Zoebliz) & Pedemontii (*prope* Feneſtrella) *montibus*, *vagus prope* Genevam.

c. *amari.*

helveticus. 12. P. ex amaro & hornblenda compoſitus.
Hoepfn. Mag. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus*, *viridis.*

alpinus. 13. P. ex amaro & feldſpato compoſitus.
Hoepfn. Mag. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *alpibus.*

micans. 14. P. ex amaro & mica compoſitus.
Hoepfn. Mag. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus.*

bicolor. 15. P. ex amaro & granatis compoſitus.
Hoepfn. Mag. Helv. Naturk. 1. *p.* 279.
Habitat in Helvetiæ *montibus.*

ſpiculatus. 16. P. ex amaro & ſcorlo compoſitus.
Hoepfn. Mag. Helv. Naturk. 1. *tab.* 2.
Habitat in Helvetiæ *montibus.*

d. *calcarii.*

calcarius. 17. P. ex calcario lapide & quartzi, cryſtallis innidulantibus compoſitus.
Habitat in confluxu circulorum Germaniæ Franconici, Suevici & Bavarici, *texturæ ſchiſtoſæ.*

Macigno. 18 P. ex marga indurata & plurima mica compoſitus.
Ferber Br. a. Welſchl. 7. p. 96. & 19 p. 324.
Habitat in Hetruria (*prope* Fieſoli) & Elba, *cinereus, colore nunc magis in flaveſcentem, nunc potius in cæruleſcentem vergente, poſterior in aëre nigreſcens & fuſceſcens, ſtrata horizontalia, inferiora duriora conſtituens, ſtruendis domibus inſerviens.*

auſtriacus. 19. P. ex marga indurata & ſcorlo compoſitus. *Born ind. foſſ.* 1. *p.* 34.
Habitat in Auſtria *prope* Traunſtein.

e. *argillacei.*

granitoides. 20. P. ex argilla & plurimo feldſpato compoſitus.
Noſe orogr. Br. ü. Siebengeb. p. 106. 110. 111. Granitporphyr.
Habitat ad Rheni *inferioris*, *in* Saxonia *prope* Altenberg, *prope* Giebichenſtein *ripas*, *facile fatiſcens, accedente interdum pauciſſimo quartzo vel mica.*

granaticus 21. P. ex argilla, feldſpato, granatis & pauciſſimo quartzo compoſitus.
Kirſt. L-sk. Mineralkab. 2. *p.* 24.
Habitat in Haſſia *prope* Wittelsberg.

cotiarius. 22. P. ex argilla et quartzi cryſtallis compoſitus.
Noſe orogr. Br. in Siebengeb. p. 14. & *Charpent. Geogr. Churſ. p.* 49. 50. 61. 62. 65. 140. Porphyrartiger Geſtein.
Schulz. n. hamb. Mag. St. 33 Mergelſtein.
Voigt Gebirgsart nr. 7. Porphyr.
Charpent. Geogr. Churſ. p. 149. Zechſtein.
Laſius Herzgeb. 1. *p.* 255. 2. *n.* 78. Cottenſtein.
Habitat ad Rheni *ripas*, *in* Thuringia, *prope* Giebichenſtein, *ad* Hercyniæ *radicem prope* Ilefeld, *in* Saxonia, Luſatia *feldſpati particulis ſæpe immixtis interdum adhuc conſpicuis, non raro tamen fatiſcentibus & vacuas foveolas relinquentibus.*

metallifer. 23. P. ex argilla, quartzi cryſtallis & aliis compoſitus.
v. Born. ind. foſſ 1. *p.* 154. 155. Saxum metalliferum.
Habitat in Temeſiæ, Tranſilvaniæ, Hungariæ, *potiſſimum, etiam* Bohemiæ, & Tirolis *montibus, venis metallicis refertus, albus, albidus, cinereus aut cæruleſcens, argillæ & quartzo ſemper aut feldſpato, aut actinoto, aut hornblenda, aut mica, aut lithomarga, aut pluribus ſimul accedentibus.*

tranſilvanicus. 24. P. ex argilla & micæ cryſtallis compoſitus.
Karſt. Lesk Mineralkab. 2. *p.* 24.
Habitat in Tranſilvania *prope* Felſobanya.

delphinatus. 25. P. ex argilla, ſcorlo & asbeſto compoſitus.
Hoffmann bergm. Journ. 1788. 1. *p.* 57.
Habitat in Delphinatu (*prope* Bourg d'Oiſans,) *argilla ferri calce impraegnata, ſcorlo duplicis generis, alio vitreo, alio ferri ochra extrinſecus inquinato, ſemipellucido, duro, cano, compacto, intus parum micante, in fragmenta acutangula diſſiliente, forma tabularum tenuiſſimarum tetraëdrarum cylindricea, latera excavatarum in tabulas denuo aggregatarum conſpicuo.*

ſpadiceus. 26. P. ex argilla & granatis compoſitus.
Hoffmann bergm. Journ. 1788. 1. *p.* 246.
Habitat paſſim e. gr. *prope* Schneeberg *in* Saxonia, *integrum ſub humo ibi ſtratum efficiens, ferri mineris in uſtrinis additus, argilla ſcilicet ferri calce divite, granatis ex fuſceſcente rubris.*

chlorogranaticus. 27. P. ex argilla & chlorogranatis compoſitus.
Habitat in Saxonia *prope* Eibenſtok.

f. *baſaltici.*

antiquus. 28. P. ex trapezio & feldſpato compoſitus.
Cronſt. miner. §. 265.
Ferb. Br. a. Welſch. 16. *p.* 265. Porfido verde.
Habitat - - - trapezio viridi, cryſtallis feldſpati albis, & ſcorli nigris vario.

Angliæ. 29. P. ex trapezio & quartzi cryſtallis compoſitus.
Withering act. angl. 72. *p.* 2. *n.* 20. Rowley-rag.
Habitat in Anglia.

tinnitans. 30. P. ex trapezio & ſcorli ſpiculis conſtans.
Waller. ſyſt. miner. 1. *p.* 410. *n.* 12. Saxum corneo trapezio & baſalte mixtum.
Habitat in Weſtrogothia Sueciæ, *digito impoſitus duroque corpore percuſſus tinnitans.*

acerofus. 31. P. ex trapezio & hornblendæ cryſtallis minimis innatis compoſitus.
Waller. ſyſt. miner. 1. *p.* 362. *n.* 4. f. Corneus trapezius particulis aceroſis.

Cronſt. miner. §. 265. 1. Saxum compoſitum jaſpido martiali molli ſeu argilla molli indurata, & - - - particulis majoribus aceroſis.
Habitat in montibus Hunneberg, Kinnekulle, Stollberg, Sueciæ, *obſcure cinereus aut niger.*

ſquamoſus. 32. P. ex trapezio & mica compoſitus.
Waller. ſyſt. mineral. 1. *p.* 363. *n.* 4. g. Corneus trapezius, ſquamulis oblique nitentibus.
Habitat in Sueciæ *montibus.*

lamelloſus. 33. P. ex wacca & hornblenda compoſitus.
Karſt. Mag. Helv. Naturk. 3. *p.* 234.
Habitat in Saxonia.

ſpatoſus. 34. P. ex wacca & ſpato calcareo compoſitus.
Karſt. Mag. Helv. Naturk. 3. *p.* 234.
Habitat in Saxonia & Bohemia, *etiam prope* Francofurtum *ad* Mœnum.

nigerrimus. 35. P. ex wacca nigra, & micæ cryſtallis nigris compoſitus.
Widemann Magaz Helv. Naturk. 4. *p.* 196. 197.
Werner bergm. Journ. 1788. 2. *p.* 853.
Habitat in Saxoniæ *monte* Scheibenberg *prope* Annaberg, *& aliis, prope* Joachimsthal Bohemiæ.

ægyptius. 36. P. ex baſalte & hornblenda compoſitus.
Werner bergm. Journ. 1788. 2. *p.* 853.
α) hornblendæ cryſtallis nigerrimis minimis firmiſſime innatis.
β) hornblendæ maculis majoribus vireſcentibus.
Ferber Br. a. Welſchl. 16. *p.* 274. Pietra d'Egitto, Pietra nefritica.

baſalticus. 37. P. ex baſalte & feldſpato, interſitis interdum quartzi & micæ particulis compoſitus.
Ferber Br. a. Welſch. 16. *p.* 272.
Habitat - - in monumentis Romæ aſſervatis obvius.

Pedicularis. 38. P. ex baſalte & ſcorli granatini cryſtallis compoſitus.
Ferber Br. a. Welſchl. 16. *p.* 272. 274.
β) ſcorli granatini cryſtallis acus capitulum vix ſuperantibus.
Ferber Br. a. Welſchl. 16. *p.* 275. Baſalte pidouhioſo.
Habitat e. gr. *in* Italia *in monumentis antiquis Romæ aſſervatis hinc inde obvius, hornblenda aut ſcorlo genuino accedente non raro auctus; utrum fundamentum in β) viride ſemper verus baſaltes?*

fuldenſis. 39. P. ex baſalte & granatis compoſitus.
Habitat ad montem Pferdekopf *epiſcopatus* Fuldenſis.

olivinus. 40. P. ex baſalte & olivinis compoſitus.
Gioeni litolog. Veſuv. p. 90.
Habitat circa Veſuvium, *granatos quoque interdum continens.*

g. *ex lavis conflati.*

vulcanicus. 41. P. ex lava & hornblenda compoſitus.
Ferber Br. a. Welſch. 11. *p.* 178.
Habitat prope montes ignivomos, e. gr. Veſuvium.

ocellatus. 42. P. ex lava & ſcorli granatini cryſtallis compoſitus.
Gioeni litolog. Veſuv. p. 97-100. 102. 103. 109. 123.
Ferber Br. a. Welſchl. 11. *p.* 176. 178. 179.
Habitat prope montem Veſuvium, *niger, cinereus aut ruber, ſæpius quoque ſcorlum genuinum, interdum micam, rarius feldſpatum aut granatos includens.*

bacillaris. 43. P. ex lava & ſcorli genuini priſmatibus hexaëdris compoſitus.
Gioeni litolog. Veſuv. p. 92-110.
Ferber Br. a. Welſchl. 11. *p.* 167. 177-179.
β) *Ferber Br. a. Welſchl.* 18. *p.* 340. Granito di Cortona.
Habitat prope montem Veſuvium, *in inſulis* Marcheſas, *nunc niger, nunc cinereus, nunc ruber, ſcorli cryſtallis interdum valde obtuſangulis, modo tenuioribus, modo craſſioribus, nonnunquam ſtriatis, nigris, albis, aut chryſolithum, ſmaragdum, topazium, hyacinthum colore referentibus, intermiſtis interdum quoque actinoti, granati aut ſcorli granatini cryſtallis.*

nitidulus. 44. P. ex lava & mica compoſitus.
Gioeni litolog. Veſuv. p. 89. 102. 118.
Habitat prope montes ignivomos, *non raro quoque cryſtallos ſcorli granatini vel gemini continens, aut granatos, aut utroſque.*

decipiens. 45. P. ex lava & feldſpato compoſitus.
Gioeni litolog. Veſuv. p. 123.
de Dolomieu mém. ſur les iſles ponc. & catal. raiſonn. des produits de l'Etna, &c. *à Paris* 1788. 8.
Habitat in Sicilia, *& ad* Veſuvium, *utplurimum quoque hornblendam, rarius micam aut ſcorlum includens.*

h. *ex piceo conflati.*

piceus. 46. P. ex piceo, feldſpato & quartzo compoſitus.
Hoffmann bergm. Journ. 1788. 2. *p.* 491.
Habitat in Saxonia *prope* Miſenam, *montes integros cum montibus ex porphyrio argillaceo conſtructis alternos conſtituens, ſtratis horizontalibus, in coloris nigri, viridis, fuſci, vel rubri.*

i. *ex petroſilice compoſiti.*

ſchiſtoſus. 47. P. ex petroſilice & feldſpato conſtans, texturæ ſchiſtoſæ.
Charpent. Geogr. Churſ. p. 21. 24. 25. 28. *Voigt Br. üb. Gebirgslehr. p.* 43. *n.* 7. Hornſchiefer.
Wern. Claſſificat. Gebirgſart. p. 11. §. 11. Porphyrſchiefer.
Noſe orogr. Br. üb. Siebeng. 1. *p.* 17. Hornporphyr.
Habitat frequens in Bohemia, Luſatia, Thuringia, *episcopatu* Fuldenſi, *vix metallifer, utplurimum cinereus, rarius niger, arbuſcularum imaginibus (in* Bohemia *ſæpius) pictus,* Italia *interdum ad baſaltem accedens, igne quoque facile baſalte tamen difficilius & in vitrum flaveſcens liqueſcens, in fragmenta granularia ſecedens, petroſilici & feldſpato diverſiſſima ratione inter ſe mixtis, non raro accedente hornblenda, rarius micas granatis, ſpato, rarius marmoris venis exaratus.*

nothus. 48. P. ex petroſilice & feldſpato compoſitus, texturæ ſcutcariæ.
Karſt. Lesk. Mineralkab. 2. *p.* 25.
α) texturæ ad conchaceam accedentis.
Noſe orogr. Br. üb. Siebeng. 1. *p.* 16. Hornſteinporphyr.
β) feldſpato intime & ſubtiliſſime interſito.
Noſe orogr. Br. üb. Siebeng. 1. *p.* 16. Hornquartzporphyr.
Laſius Beob. üb. Harzgeb. p. 17. 112. 123-126. 473. *n.* 27. 487. *n.* 73. Hornartiger Trapp.
γ) accedentibus petroſilici & feldſpato jaſpidis particulis.
Voigt Br. üb. Gebirgsl. nr. 6. *Laſius Beob. üb. Harzgeb. p.* 250. &c. *Noſe orogr. Br. üb. Siebeng.* 1. *p.* 16. Hornartiger Porphyr.
δ) accedente petroſilici & feldſpato quartzo.
Karſt. Lesk. Mineralkab. 2. *p.* 27.
ε) accedente petroſilici & feldſpato hornblenda.
Karſt. Lesk. Mineralkab. 2. *p.* 27.

Habitat inſigni quoad rationem partium conſtituentium & colorem varietate in Italiæ *inferioris*, Hungariæ, Carinthiæ, Bohemiæ, Luſatiæ, Saxoniæ, Hercyniæ, Rheno *inferiori conterminis*, Daniæ *quoque montibus*, *non raro quoque hornblendam, micam, ſcorlum inſperſa monſtrans.*

duriſſimus. 49. P. ex petroſilice & quartzo compoſitus.
Karſt. Lesk. Mineralkab. 1. *p.* 100.
Habitat v. g. *in* Tirolis *montibus.*

tricolor. 50. P. ex petroſilice, quartzo & granatis compoſitus.
Karſt. Lesk. Mineralkab. 2. *p.* 27.
Habitat in Hungaria.

corneus. 51. P. ex petroſilice, quartzo & hornblenda compoſitus.
Karſt. Lesk. Mineralkab. 2. *p.* 27.
Habitat in Bohemia *&* Saxonia.

rochlizenſis. 52. P. ex petrolice, quartzo & mica compoſitus.
Karſt. Lesk. Mineralkab. 1. *p.* 109.
Habitat in Saxonia, *ex rubello margaritaceus.*

inæqualis. 53. P. ex petroſilice & mica compoſitus.
Hoepfn. Magaz. Hel. Naturk. 1. *p.* 278.
Habitat in Helvetiæ *montibus.*

ſcorlaceus. 54. P. ex petroſilice & ſcorlo compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 278.
Storr Alpenr. 2. *p.* 231. 265.
Habitat in Helvetiæ, Rhætiæ, Vallis Tellinæ *montibus.*

baryticus. 55. P. ex petroſilice & barytide compoſitus.
Storr Alpenr. 2. *p.* 231.
Habitat in Rhætiæ *monte* Muſchelhorn.

ſpecaceus. 56. P. ex petroſilice & ſpato compoſitus.
Hoepfn. Magaz. Helv. Naturk 1. *p.* 278.
Storr Alpenr. 2. *p.* 266.
Habitat in Helvetiæ *&* Vallis Tellinæ *montibus.*

radians. 57. P. ex petroſilice & actinoto compoſitus.
Karſt. Lesk. Mineralkab. 1. *p.* 109.
Habitat in Suecia *prope* Sahlberg.

k. *ex jaſpide compoſiti.*

genuinus. 58. P. ex jaſpide & feldſpato compoſitus:
Syſt. nat. I. *p.* 189. *n.* 21. XII. 3. *p.* 72. *n.* 1. Saxum (Porphyrius) impalpabile, ſtriis, punctis maculiſque ſparſis ſpatoſis.

Schreb. lithol. 78. Saxum impalpabile ſiliceum fuſcum, granis ſpatoſis rubeſcentibus & albis.
Cronſt. miner. §. 264. 6. Saxum compoſitum jaſpide & feldſpato, interdum mica & baſalte.
Waller. miner. ſp. 94. Jaſpis duriſſima rubens, lapillulis variis inſperſis.
Waller. ſyſt. miner. 1. *p.* 414. *n.* 9. Saxum jaſpide & ſpato ſcintillante mixtum.
Ferber Br. a. Welſchl. 16. *p.* 260. Porphyr.
Coſt. foſſ. 283. Porphyrites.
Habitat in Ægypto, Arabia, Græcia, Italia (*potiſſimum in territorio civitatum* Bergami *&* Breſciæ,) Sabaudia, Helvetia, Burgundia, *montibus* Vogeſis, *aliiſque* Galliæ *meridionalis partibus*, Tiroli, Bohemia, Saxonia, Thuringia *finitimis* Franconiæ *partibus*, Hercynia, Scandinavia, Sibiria, *tum vagus, tum rupes, montes, horumve partem præcipuam conſtituens, opacus, texturæ ad conchaceam, rarius ad ſchiſtoſam accedentis, durus & egregiam polituram admittens, hinc toties in monumentis veterum obvius, & adhuc nobilioribus præſertim ædificiorum partibus inſerviens, in fragmenta indeterminata diſſiliens, igne facile liqueſcens, formæ utplurimum communis, rariſſime priſmaticæ, tum aſcedentibus aliis atque aliis peregrinis,* e. gr. *hornblenda, mica, ſcorlo, quartzo, tum partium conſtituentium colore, forma, diſtributione, varia inter ſe ratione infinitum in modum varians, feldſpato utplurimum albo, nonnunquam rubello, punctorum, ſtriarum, macularum, priſmatum forma jaſpidi immerſo, interdum fatiſcente, ut vacua remaneant, quæ occupaverat, loca, jaſpide nunc rubra, nunc fuſca, nunc nigra, nunc viridi, rarius obſcure cinerea, aut bicolore,* e. gr. *nigra & viridi, rubra & aurantia.*

corſicanus. 59. P. ex jaſpide, & actinoto compoſitus.
Ferber Br. a. Welſchl. 21. *p.* 357. Marmo verde di Corſica.
Habitat in inſula Corſica, *albus, maculis violaceis, rudiiſque actinoti viridibus varius; an huc ſpectat?*

amiantinus. 60. P. ex jaſpide, asbeſto & quartzo compoſitus.
Habitat vagus in comitatu Mansfeld, *jaſpide rubra, asbeſto vireſcente, quartzo albo.*

nitens. 61. P. ex jaſpide & mica compoſitus.
Hoepfn. Magaz. Helv. Natur. 1. *p.* 278.
Habitat in Helvetia *&* (*prope* Annaberg) *in* Saxonia.

ſcorlinus. 62. P. ex jaſpide & ſcorlo compoſitus.
Hoepſr. Magaz Helv. Naturk. 1. *p.* 278.
Habitat in Helvetia.

granatifer. 63. P. ex jaſpide & granatis compoſitus.
Born. ind. foſſ. 1. *p.* 32. 2. *p.* 94.
Habitat in Auſtria (*prope* Crems) & Islandia, *jaſpide viridi*.

efferveſ-cens. 64. P. ex jaſpide & ſpato compoſitus.
Hoepſn. Magaz. Helv. Naturk. 1. *p.* 278.
Habitat in Helvetia.

cryſtalli-nus. 65. P. ex jaſpide & quartzi cryſtallis compoſitus.
Hoepſn. Magaz Helv. Naturk. 1. *p.* 178.
Habitat in Helvetia.

Achates. 66. P. ex jaſpide, quartzo fragili, cryſtallo, amethyſto, chalcedonio genuino, carneolo & onyche, petroſilice, pyromacho, pluribus vel paucioribus ſimul compoſitus.
Syſt. nat. XII. 3. *p.* 70. *n.* 10. Silex rupeſtris, cortice rufo noduloſo, ſubdiaphanus.
Muſ. Teſſin. 8. *n.* 6. Silex rupeſtris ſuperficie nodoſa tunicata.
Woltersd. miner. 14. Cornens lapis diaphanus variegatus.
Waller. miner. 84. & *ſyſt. miner.* 1. *p.* 284. *n.* 22. Achates duriſſima fere pellucens, diverſis coloribus nitens, variegata.
Baum. miner. 1. *p.* 250. *Ruwpſ. muſ. t.* 56. *f.* A. D.
Cronſt. miner. §. 61. Achates.

faſciatus. α) partibus conſtituentibus per faſcias rectas rarius undulatas colore diverſas alternantibus.
Karſt. Lesk. Mineralkab. 1. *p* 139. Bandachat.

anguloſus. β) ex fragmentis anguloſe cryſtoſis compoſitus.
Karſt. Lesk. Mineralkab. 1. *p.* 140. Veſtungsachat.

annulatus. γ) annulis pictus.
Karſt. Lesk. Mineralkab. 1. *p.* 143. Ringachat.

ruralis. δ) picturas campeſtres referens.
Karſt. Lesk. Mineralkab. 1. *p.* 145. Landſchaftsachat.

muſcoſus. ε) muſcorum icones referens.
Karſt. Lesk. Mineralkab. 1. *p.* 145. Moosachat.

ſtellaris. ζ) punctis ſtellaribus inſignitus.
Karſt. Lesk. Mineralkab. 1. *p.* 146. Sternachat.

ruderalis. η) ex fragmentis indeterminatis compoſitus.
Karſt. Lesk. Mineralkab. 1. *p.* 146. Trummerachat.

Habitat infinita fere varietate (micrologia lithophilorum & fraudibus lithopolarum hinc inde acuta ſive indolem, proportionem & diſtributionem partium conſtituentium, ſive tinctum & colorum temperaturam, ſive duritiem & nitorem, eum potiſſimum, qui politura conciliatur, ſive durabilitatem ſpecies, elegantior & copioſior in Saxonia, Palatinatu, *Ducatu* Bipontino, *in aliis* Rheno *irrigatis terris, alias quoque in* Hercynia (*prope* Ilefeld & *in terra* Walkenried,) Haſſia (*prope* Gunderhauſen & Dianenberg,) Thuringia, Franconia, Wittembergia, Bavaria, Bohemia, Sileſia, Hungaria, Temeſia, Sibinia, Candia, Sicilia, Hetruria, *territorio* Breſciano, Vogeſis, Anglia, Scania, Islandia, Zeylona *nunc vagus nunc argillæ induratæ innidulans, rarius in venis, rariſſime ſtalactitæ forma obvius, ornamentis, ædificiorum partibus nobilioribus, gemmæ quoque loco hinc inde inſerviens.*

59. AMYGDALITES.

Ex glandulis alterius generis foſſili formæ communis innidulantibus.

In montibus potiſſimum ſerioris ætatis occurrens, ſæpe ad aërem fatiſcens.

a. *talcoſi.*

rhæticus. 1. A. ex ſteatite & petroſilice compoſitus.
Storr Alpenr. 2. *p.* 214.
Habitat in Rhætiæ *monte* Deſpiner Alp, *dilute viridis, petroſilice cinereo.*

fornacum. 2. A. ex ſteatite & barytide compoſitus.
Storr Alpenr. 2. *p.* 51. 52. Giltſtein.
Habitat in Bernatum *valle* Urſeren, *cujus incolis in craſſas laminas diſciſſus in fornaces adaptatur, ex vireſcente cinereus, barytidis canæ glandulis prominentibus aſper, vix in vaſa tornandus, igne, niſi ſatis craſſis tabulis illi exponatur, rimas agens.*

glanduloſus. 3. A. ex ſerpentino & marmore vel ſpato compoſitus.
Habitat in Italia & (*prope* Schwarzenberg) *in* Saxonia.

homogeneus. 4. A. ex ſerpentino & ollari compoſitus.
Habitat in Saxonia (*prope* Zoebliz).

leucochloros. 5. A. ex ſerpentino & quartzo compoſitus.
Habitat in Suecia *prope* Sala.

granaticus. 6. A. ex asbeſto & granato compoſitus.
Born. ind. foſſ. I. *p.* 32.
Habitat in Temeſia (*prope* Dognaska,) Tiroli (*prope* Sterzing) & Laponia, *accedente interdum mica.*

b. *calcarii.*

Ophites. 7. A. ex marmore & ſerpentino compoſitus.
Cronſtedt miner. §. 209. 1. I. 3. Saxum compoſitum particulis calcareis & argillaceis.
Habitat in Suecia, Italia, Africa *meridionali*, *utplurimum albus*, *ſerpentino viridi aut nigro.*

hetruricus. 8. A. ex macigno & ſerpitini marmoris aut argillæ glandulis compoſitus.
Ferber Br. a. Welſchl. 19. *p.* 324.
Habitat in Hetruria (*prope* Fieſoli,) *ædificiis exſtruendis frequenter adhibitus.*

c. *argillacei.*

primigenius. 9. A. ex argilla & quartzo compoſitus.
Syſt. nat. XII. 3. *p.* 80. *n.* 37. Saxum lapillis fabulis argillaque coadunatum.
Habitat in Suecia.

asbeſtinus. 10. A. ex argilla, asbeſto & granatis compoſitus.
Ferber Beytr. z. boehm. Mineralg. p. 51.
Habitat in Bohemia (*prope* Orpes) *venam ferri fovens*, *accedente ſcorlo*, *ſpuma lupi mica*, *hornblenda non raro auctus.*

lamelloſus. 11. A. ex argilla, hornblenda & ſpato compoſitus.
Habitat in Saxonia (*prope* Schneeberg.)

cæmentarius. 12. A. ex cæmento & lavis compoſitus.
Habitat frequens in Italia *inferiori & media.*

Wacca. 13. A. ex wacca & ſpato compoſitus.
Karſt. Magaz. Helv. Naturk. 3. *p.* 234. *ſq.*
Habitat frequens in Saxonia.

ſordidus. 14. A. ex wacca & quartzo compoſitus.
Werner chen. Annal. 1789. 1. *p.* 131.
Habitat in Bohemia (*prope* Joachimsthal).

ſerpentinus. 15. A. ex trapezio & ſerpertino compoſitns.
Habitat in Italiæ, Sileſiæ *montibus ſtratariis, trapezio utplurimum fuſco, ſerpentino obſcure viridi, fructus & ſemina elliptica vel globuloſa non raro mentiente, hinc inter carpolithos relato.*

ſteatiticus. 16. A. ex trapezio & ſteatite compoſitus.
Habitat in Ducatu Bipontino, & Franconia.

vulgaris. 17. A. ex trapezio & ſpato compoſitus.
Valler ſyſt. miner. 1. *p.* 424. *n.* 17. a. Saxum glanduloſum baſi corneo trapezio cum glandulis albis.
Habitat in Norwegiæ, Angliæ (*potiſſimum provincia* Derby,) Italiæ, Ducatus *Bipontini, ripæ* Mœni *fluvii, epiſcopatus* Fuldenſis, Herciniæ (*prope* Seeſen, *inter* Oſterode & Clauſthal, *prope* Ileſeld,) Saxoniæ (*prope* Zwickau,) Bohemiæ, Sileſiæ, Hungariæ (*prope* Stiaoniza) *montibus ſtratariis, achatæ & chalcedonii frequens matrix, ſpato ſemper albo, interdum argilla viridi obducto, nunc glandulis majoribus, nunc globulis particulisque minoribus rarioribus aut copioſioribus per reliquam maſſam diſperſo, nunc rubram, nunc fuſcam, nunc viridem, nunc ex vireſcenti ciaeream, nunc nigram, accedente interdum præterea mica, vel argilla viridi, vel feldſpato.*

gypſeus. 18. A. ex trapezio & ſelenite compoſitus.
Habitat in Ducatu Bipontino.

varioloſus. 19. A. ex trapezio & lithomarga compoſitus.
Karſt. Lesk. Mineralkab. 2. *p.* 38.
Habitat in Bohemia, Saxonia, *lithomarga alba.*

æruginoſus. 20. A. ex trapezio & argilla viridi compoſitus.
Habitat in Bohemia (*prope* Brammey *in montibus giganteis*,) Saxonia (*prope* Zwickau) & Hercynia (*prope* Ilefeld,) *trapezio utplurimum fuſco.*

zeolithicus. 21. A. ex trapezio ex zeolithi globulis compoſitus.
Habitat in Ducatu Bipontino.

tuberoſus. 22. A. ex trapezio & quartzi glandulis compoſitus.
Habitat e. gr. *prope* Francofurtum *ad* Mœnum.

23. A.

chalcedonius. 23. A. ex trapezio & chalcedonio compoſitus.
Habitat prope Francofurtum *ad* Mœnum *et prope* Budingum, *chalcedonio crebro botryoide, nonnunquam vitri ad inſtar fere pellucido aut opalum ſimulante.*

chloroſtictos. 24. A. ex baſalte columnari & ſteatite compoſitus.
Habitat in baſaltiferis rheno inferiori & Gœttingæ *vicinis, ſteatitæ glandulis vireſcentibus minoribus, rarioribus, baſalte nigro.*

ſpatoſus. 25. A. ex baſalte columnari & ſpato compoſitus.
Habitat e. gr. in Haſſiæ *montibus baſaltiferis.*

marmoreus. 26. A. ex baſalte columnari & marmoris glandulis compoſitus.
Ferber. Br. a. Welſchl. p. 286.
Habitat e. gr. in media Italia *prope* Radicofani.

argilloſus. 27. A. ex baſalte columnari & argillæ glandulis compoſitus.
Habitat e. gr. *in* Galliæ *meridionalis montibus baſaltiferis.*

radians. 28. A. ex baſalte columnari & zeolithi glandulis ſtellatim fibroſis compoſitus.
Habitat in Galliæ *meridionalis,* Haſſiæ, Thuringiæ, Luſatiæ *montibus baſaltiferis.*

piceus. 29. A. ex baſalte columnari & piceo compoſitus.
Habitat in montibus baſaltiferis, Gœttingæ *vicinis.*

olivinus. 30. A. ex baſalte columnari & olivino compoſitus.
Habitat in Galliæ *meridionalis,* Gœttingæ *vicinis,* Haſſiæ, Thuringiæ, Franconiæ (Rhoenberge,) Saxoniæ, Luſatiæ, Bohemiæ *montibus baſaltiferis.*

durus. 31. A. ex baſalte columnari & quartzi glandulis compoſitus.
Ferber. Br. a. Welſchl. p. 274.
Hapitat in Italia.

granitoides. 32. A. ex baſalte columnari & granitæ glandulis compoſitus.
Ferber Br. a. Welſchl. p. 273.
Habitat in Italia *& meridionali* Gallia.

ferrifer. 33. A. ex baſalte columnari & ferro ſpatoſo compoſitus.
Habitat in montibus baſaltiferis, Mœno *vicinis.*

brecciatus. 34. A. ex lava & marmoris glandulis compoſitus.
Ferber Br. a. Welſchl. 14. *p.* 226. 18. *p.* 312.
Habitat in Italiæ *mediæ montibus olim ignivomis, vagus quoque ad fluvios.*

argillaceus. 35. A. ex lava & argillæ glandulis compoſitus,
Habitat in Italia *meridionali et media.*

ſchiſtiferus. 36. A. ex lava & ardeſiæ fruſtis compoſitus.
Habitat in Sicilia *& vicinis inſulis.*

albo-maculatus. 37. A. ex lava & zeolithi glandulis compoſitus.
Habitat in Sicilia.

gemmifer. 38. A. ex lava & olivino compoſitus.
Ferber. Br. a. Welſchl. 11. *p.* 173.
Habitat frequens ad Veſuvii *radicem.*

pyromachus. 39. A. ex lava & pyromachi glandulis compoſitus.
Habitat ad Veſuvii *radicem.*

inconſpicuus. 40. A. ex lava & quartzi glandulis conflatus.
Habitat in Sicilia.

achatoides. 41. A. ex lava & chalcedonio compoſitus.
Habitat in Islandia.

ferruginoſus. 42. A. ex lava & ferri minera compoſitus.
Habitat in Islandia.

d. *ſilicei.*

margodes. 43. A. ex petroſilice & margæ glandulis compoſitus.
Sauſſur. voy. dans les Alp. 1. *p.* 141.
Habitat vagus prope Genevam.

ſimilaris. 44. A. ex petroſilice & argillæ glandulis compoſitus.
Habitat in Bohemiæ (*prope* Przibiam,) Saxoniæ (*prope* Marienberg) *&* Bipontinis *fodinis, frequens minerarum matrix.*

jemticus. 45. A. ex petroſilice & zeolithi glandulis compoſitus.
v. Born ind. foſſ. 1. *p.* 47.
Habitat in Jemtia Sueciæ.

quartzifer. 46. A. ex petroſilice & quartzi glandulis compoſitus.
Charpent. Geogr. Churſ. p. 286.
Habitat in Saxonia (*prope* Schneeberg *&* Johanngeorgenſtadt).

Cronſtedtii. 47. A. ex jaſpide, ſpato & ſerpentini glandulis compoſitus.
Cronſt. miner. §. 266. Saxum baſi jaſpidea martiali cum fragmentis ſpati calcarei & ſerpentini, figura elliptica.
Waller. ſyſt. miner. 1. *p.* 424. *n.* 17. b. Saxum glanduloſum baſi jaſpidea, glandulis albis & viridibus.
v. Born ind. foſſ. 1. *p.* 151.
Habitat in Norwegia (*prope* Moſs) *&* Saxonia (*prope* Zwickau,) *ruber, glandulis albis viridibusque varius.*

albo-guttatus. 48. A. ex jaſpide & ſpati glandulis compoſitus.
v. Born. ind. foſſ. 1. *p.* 152.
Habitat in Bohemia *prope* Stitz, *ex cinereo viridis.*

albo-fuſcus. 49. A. ex jaſpide & lithomarga compoſitus.
v. Born ind. foſſ. 2. *p.* 146.
Habitat in Bohemia *prope* Bukau.

cinereus. 50. A. ex jaſpide & zeolitho compoſitus.
v. Born ind. foſſ. 1. *p.* 151.
Habitat in India.

helveticus. 51. A. ex jaſpide & amaro compoſitus.
Hoepfn. Magaz. Helv. Naturk. 1. *p.* 278.
Habitat in Helvetiæ *montibus.*

ſibiricus. 52. A. ex jaſpide et quartzo compoſitus.
Syſt. nat. XII. 3. *p.* 78. Saxum impalpabile jaſpideum rubrum, maculis albis quartzoſis.
Habitat in Sibiria (*præcipue ad fluvium* Ural,) Italia (*prope* Breſciam,) Wrtembergia (*prope* Stuttgardiam,) Saxonia.

Jaſponyx. 53. A. ex jaſpide & onyche compoſitus.
Habitat rarior in Saxonia, Palatinatu rhenano, *Ducatu* Bipontino.

albo-viridis. 54. A. ex quartzo & ſerpentino compoſitus.
Habitat in Suecia (*prope* Sahla).

tricolor. 55. A. ex quartzo & gypſo rubro nigroque compoſitus.
v. Born ind. foſſ. 1. *p.* 86.
Habitat in Saxonia (*prope* Marienberg,) *mineræ ſtanni matrix.*

60. BRECCIA. Ex fragmentis lapidum utplurimum rotundatis per cæmentum terreum aut metallicum conglutinatis conſtans.

In montibus recentioribus tantum occurrens.

a. *talcoſæ.*

ſerpentina. 1. Br. ex fragmentis ſerpentini minoribus ope margæ induratæ miciferæ conglutinatis.
Habitat in Pedemontio.

b. *calcariæ.*

calcaria. 2. Br. ex fragmentis marmoris rudis ope terræ calcariæ conglutinatis.
Habitat paſſim in vallibus montibus calcariis conterminis.

marmorea. 3. Br. ex fragmentis marmoris nobilis ope terræ calcariæ conglutinatis.
Cronſt. miner. §. 269. 1. 1. Marmo brecciato.
Habitat in Italia, *egregiam polituram admittens, variegata.*

Lumachella. 4. Br. ex teſtaceis coralliisque eorumve fragmentis ope terræ calcariæ conglutinatis.
Cronſt. miner. §. 269. 1. 2. Lumachella.
Ferber. Br. a. Welſchl. 16. *p.* 257.
Habitat in Norwegia, Suecia, Germania, *potiſſimum teſtaceis adhuc egregie ſplendentibus ſpectabilis in* Carinthia, *in* Italia, *eximie ſæpius variegata & nitidam polituram admittens.*

ſchiſtoſa. 5. Br. ex ardeſiæ fragmentis argillæ fuſcæ ope conglutinatis compoſita.
Waller. ſyſt. miner. 1. *p.* 430. Saxum petroſum ſchiſtoſum, fragmentis ſchiſti compoſitum.
Habitat in monte Suecico Weſtrogothiæ, Hunneberg.

c. *argillaceæ.*

argilloſa. 6. Br. ex trapezii fragmentis jaſpidi conglutinatis.
v. Born ind. foſſ. 1. *p.* 156.
Habitat in Norwegia.

baſaltina. 7. Br. ex baſaltæ columnaris fragmentis argillæ ope conglutinatis.

Noſe orogr. Br. üb. Siebeng. I. *p.* 163.

Habitat ad Rheni *inferioris ripas, in montibus* Honderberg *&* Wolsberge.

lavina. 8. Br. ex lavæ fragmentis terræ calcariæ ope conglutinatis.

Habitat in Sicilia *aliisque regionibus montibus* ignivomis *vicinis.*

Cicerchina. 9. Br. ex lavæ fragmentis & ſpati granis albis ope terræ calcariæ conglutinatis.

Ferber Br. a. Welſchl. 7. *p.* 96. Cicerchina.

Habitat in Italia, *præſertim* Hetruria (*prope* Fieſoli), *poliendo marmori inſerviens.*

d. *ſiliceæ.*

helvetica. 10. Br. ex petroſilicis fragmentis ope margæ conglutinatis.

Andreæ Br. a. d. Schw. p. 36. &c. Nagelfluh, Nagelfels.

Habitat frequens in Helvetia, *potiſſimum meridionali & occidentali, tum vaga, tum in rupes colleſque aggregata, in magna* Helvetiæ *parte inter principes ædificiorum materias, animalium, v. g. dentium ſquali veſtigiis impreſſis interdum conſpicua, polituram non admittens.*

cornea. 11. Br. ex petroſilicis fragmentis argillæ ope conglutinatis.

v. *Born ind. foſſil.* I. *p.* 156.

Habitat in Carniolia (*prope* Idriam) *&* Saxonia (*prope* Schneeberg,) *accedentibus poſteriori ſpati quoque fruſtulis.*

mixta. 12. Br. ex petroſilicis quartzique fragmentis terræ calcariæ ope conglutinatis.

Habitat in Saxonia *prope* Annaberg.

Silicina. Puddingſtone. 13. Br. ex petroſilicis quartzique fragmentis jaſpidis ope conglutinatis.

Syſt. nat. XII. 3. *p.* 80. *n.* 39. Saxum ſilicibus cretaceis jaſpide connatum.

Vog. min. 128. Silex concretus.

Cronſt. min. §. 271. Saxum ſilicibus amorphis materia jaſpidea conglutinatum.

Wall. ſyſt. min. I. *p.* 428. *n.* 5. Saxum petroſum ſiliceum, diverſis ſilicibus concretum.

Habitat in Anglia, Rheno, Bohemia *egregiam polituram admittens, variegata, jaſpide uplurimum ſpadicea, vaſis & ornamenti generibus variis inſerviens.*

fruticuloſa. 14. Br. ex petroſilicis fragmentis luteis arbuſcularum imaginibus nigris inſignitis rubriſque compoſita.
Ferber Br. a Welſchl. 16. *p.* 259 Pietra frutilioſa orientale.
Habitat in Oriente.

Ægyptia. 15. Br. ex petroſilicis viridis fragmentis conglutinata.
Ferber Br. a. Welſchl. 16. *p.* 259. Breccia verde d'Egitto.
Habitat in Ægypto, *vix polituram admittens, viridi fragmentorum colore nunc clariori, nunc obſcuriori, granitæ fragmentis interdum intermiſtis.*

cuprifera. 16. Br. ex petroſilicis quartzique fragmentis ærugine conglutinatis.
Cronſt. min. §. 275. 3. 1. 1.
Habitat in Sibiria, *cupro adeo dives, ut cum fructu eliquetur.*

jaſpidea. 17. Br. ex jaſpidis fragmentis jaſpidis ope conglutinatis.
Cronſt. min. §. 270. Saxum fragmentis jaſpidis materia jaſpidea conglutinatum.
Wall. ſyſt. min. 1. *p.* 429. Saxum petroſum jaſpideum, fragmentis jaſpidis conglutinatis compoſitum.
Habitat in Italia & (*prope* Frejus) Gallo provincia.

quartzoſa. 18. Br. ex quartzi fragmentis quartzi ope conglutinatis.
Cronſt. min. §. 270. Saxum fragmentis quartzoſis conglutinatum.
Waller. ſyſt. min. 1. *p.* 428. *n.* 4. Saxum petroſum quartzoſum, fragmentis quartzoſis concretum.
Habitat in Jemtia, Smolandia Sueciæ.

glandulosa. 19. Br. ex quartzi fragmentis arenarii ope conglutinatis.
Syſtem. nat. I. *p.* 186. *n.* 5. XII. 3. *p.* 73. *n.* 8. Saxum (æthereum) cotaceum quartzoſum, particulis lacteis.
Wall. min. 164. Saxum petroſum arenaceo-ſiliceum.
Wall. ſyſt. min. 1. *p.* 427. *n.* 3. Saxum petroſum arenario-ſiliceum ab arena vel ſabulo cum ſilicibus concretum.
β) *Syſt. nat.* XII. 3. *p.* 62. *n.* 4. Cos tigrina.
Habitat in Dalecarlia, Nericia, Geſtricia Sueciæ, Normannia, Germannia (*prope* Goettingam.)

indeterminata. 20. Br. ex fragmentis variorum lapidum ſimpliciorum, inter quos quartzum eminet compoſita.
Habitat paſſim in Germania.

Porphyrea. 21. Br. ex fragmentis porphyrii jaſpidis aut porphyrii ope conglutinatis.
Cronſt. min. §. 273. 5. 1. Brecchia porphyrea.
Wall. ſyſt. min. 1. *p.* 430. *n.* 8. Saxum petroſum porphyreum, fragmentis porphyris conglutinatis compoſitum.
Habitat in Dalecarliæ *monte* Hykieberg & *rupe* Serna, *in monte* Schwalbenſtein Hennebergæ (*prope* Ilmenau.)

arenaria. 22. Br. ex fragmentis arenarii conglutinatis compoſita.
Cronſt. min. §. 273. 5. 3. Saxum fragmentis conſtans ſaxorum conglutinatorum.
Wall. ſyſt. miner. 1. *p.* 427. *n.* 2. Saxum petroſum arenarium, fragmentis lapidis arenarii conglutinatis compoſitum.
Habitat in Dalecarlia.

ſaxoſa. 23. Br. ex fragmentis variorum lapidum aggregatorum conglutinata.
Cronſt. min. §. 273. 5 2. Breccia indeterminata.
Wall. ſyſt. min. 1. *p.* 430. *n.* 9. Saxum petroſum lapidibus ſaxoſis concretum.
Habitat in Dalecarlia, Normannia Sueciæ.

ſterilis. 24. Br. ex fragmentis variorum lapidum tum ſimpliciorum tum aggregatorum conglutinata.
Voigt Verz. Samml. v. Gebirgsart. p. 15. *n.* 15. 16. Rothes Todtes Liegendes.
Habitat in Thuringiæ, Haſſiæ *montibus, margæ bituminoſæ ſtratis, ſuppoſita.*

61. ARENARIUS. Ex granulis arenæ conglutinatis compoſitus.

In montibus ſtratariis obvius, integra ſtrata, rupes, colles montes conſtituens, utplurimum formæ communis & in fragmenta indeterminata diſſiliens.

α *ſimpliciores.*

a. *cæmento ſiliceo.*

flexilis. 1. A. elaſticus durus apyrus particulis ſubſquamoſis.

Gaſſend. vit. Peireſc. Hag. Comit. 1655. *p.* 155. Cos flexilis.

Brückmann chem. Ann. 1784. 2. *p.* 441. Elaſtiſcher Stein.

Crell chem. Annal. 1785. 2. *p.* 479.

Habitat in Braſilia, *canus, aſper, cum acidis non effervescens, majoribus quoque fruſtis ſi flectatur, priorem in ſitum reſiliens, & huc illuc vacillando ſonitum levem edens, igne candente ne hilum quidem ſui ponderis, & quod minores particulas ſpectat, pelluciditatis amittens.*

Avanturino. 2. A. durus politura egregium nitorem acquirens, granulis ſpadiceis inæqualiter tinctis.

Daubenton & Saye act. Pariſ. ann. 1781. *p.* 1–7.

Khun Abh. d. boehm. Geſ. d. Wiſſ. ann. 1788. *p.* 118.

Habitat in Hiſpania, Britannia, Bohemia, Saxonia *(prope* Lipſiam*) vagus.*

Cos. 3. A. duriuſculus fragilis polituram non admittens, granulis minoribus æqualibus.

Syſt. nat. I. *p.* 147. *n.* 2. XII. 3. *p.* 61. *n.* 1. *It. ſcan.* 321. *Muſ. Teſſin.* 2. *n.* 4. 5. Cos (cotaria) particulis mere glareoſis impalpabilibus friabilibus.

Wall. min. 73. Cos particulis arenoſis æqualibus minoribus, coticularis.

Wall. ſyſt. min. 1. *p.* 190. Cos arenacea, particulis ſubtiliſſimis dura, coticularis.

Wolt. min. 14. Arenarius ex arena compactus.

Carth. min. 28. Arenarius duriuſculus granulis parvis æqualibus.

Cronſt. miner. §. 274. 3. a. Lapis arenarius glutine incognito mollior.

Coſt. foſſil. 132. Saxum arenarium album ſueccium.

Habitat frequens in Suecia, *potiſſimum* Dalecarlia, Weſtrogothia, Scania, *in* Polonia, *in* Germania, *potiſſimum* Luſatia, Saxonia, Thuringia, Haſſia, Megapolitane *Ducatu*, Holſatia, Leodio, Lotharingia, Helvetia, Tranſilvania & *in* Hiſpania, *ruſa*, *flaveſcens*, *alba aut cinerea, interdum micæ particulis inſperſis micans, teſtaceorum veſtigiis crebro dives, lapidicis phthiſeos genere, quam pulvis excitat, funeſtus, coti gyratili, coticulæ raſili, ædificiis, nobilioribus quoque interdum eorum partibus, ſtatuis adeo inſerviens.*

coagmentatus. 4. A. poroſus aquam non transmittens, granulis paulo majoribus hyalinis.

Syſt. nat. XII. 3. *p.* 63. *n.* 9. Cos particulis arenaceis hyalinis disjunctis coadmentatis.

Habitat in Europa *auſtrali, e cavitate rupium, panis triticei inſtar poroſus, granulis pellucidis rigidis paſſim connexis.*

foraminulentus. 5. A. leviuſculus exeſus, aquam tranſmittens, granulis minoribus.

Waller. ſyſt. miner. I. *p.* 198. *n.* 9. Cos particulis arenoſis minoribus, variis foraminulis inordinate diſtincta.

Habitat in Ingermannia, *ædificiis, etiam nobilioribus adhibitus.*

Filtrum. 6. A. durus aquam transmittens, granulis æqualibus majoribus.

Syſt. nat. I. *p.* 148. *n.* 8. XII. 3. *p.* 63. *n.* 10. Cos particulis arenaceis æqualibus aquam tranſmittendo ſtillans.

Waller miner. 14. Cos particulis arenoſis majoribus aquam tranſmittens.

Waller. ſyſt. miner. I. *p.* 197. *n.* 8. Cos particulis arenaceis puris, aquam transmittens.

Woltersd. miner. 14. Arenarius lapis poroſus aquam tranſmittens.

Coſt. foſſil. 143. Saxum arenarium cinereum, Filtrum.

Habitat in inſulis Canariis, *ad* novæ Hiſpaniæ *littora, in* Pannonia, Saxonia & *(prope* Libochowiz) Bohemia, *utplurimum cinereus, granis pellucidis angulatis, olim aquæ marinæ edulcandæ fruſtra, hodienum liquoribus turbidis clarificandis adhibitus.*

fundamentalis. 7. A. ſubdurus, granis inæqualibus angulatis majoribus ſubopacis.

Syſt. nat. I. *p.* 148. *n.* 5. Cos ſolidiuſcula, particulis arenaceis quartzoſis ſubopacis ſubangulatis.

Syſt. nat. XII. 3. *p.* 64. *n.* 16. Cos particulis angularis opacis fixis rigidis.

Waller. miner. ſp. 77. *ſyſt. miner.* I. *p.* 195. *n.* 6. *Cos* particulis arenoſis diſtinctis dura vulgaris.

Cronſt. miner. §. 274. 3. 3. Lapis arenarius glutine incognito.

Coſt. foſſil. 140. *n.* 27. Saxum arenarium.

Habitat in Anglia (*comitatu* Devonienſi & Ceſtrienſi) & Suecia (*potiſſimum* Roslagiæ *maritimis*, Weſtrogothia, Angermannia, Weſtmannia, Nericia, *attactu rigidus & difficulter cæduus, mitiori igne in arenam dilabens, albus, cinereus, virideſcens, fuſcus, rubens, vel flaveſcens, aquam non bibens, ſatis ſolidus, horizontaliter fiſſilis ædium fundamentis inſerviens.*

b. *cæmento calcario.*

cryſtallinus. 8. A. durus canus, cryſtallis rhombicis aggregatis, granis ſpati ope conglutinatis.

Laſſone act. Pariſ. ann. 1777. *p.* 43.

Hacq. Shr. berl. Naturf. 2. *p.* 142.

Ferber Brmerk. in Neuf. het. &c. p. 51.

Habitat in Gallia, *prope* Metas Lotharingiæ, Cabillonum Burgundiæ, *potiſſimum prope* Fontem Bellaqueum *inſulæ* Franciæ, *granis circiter* 5, *ſpato* 3 *partes conſtituentibus.*

ſtillatitius. 9. A. durus canus, forma ſtalactitæ.

Laſſone act. Pariſ. ann. 1777. *p.* 43.

Habitat prope Fontem Bellaqueum Galliæ.

margaritarius. 10. A. ex granis pellucidis inæqualibus cretæ albæ ope conglutinatis.

Syſt. nat. XII 3. *p.* 74. Saxum cotaceum arenæ margaritariæ quartzoſum.

Habitat in Nericia Sueciæ, *ſuperficie micante* theſſelius.

Helenæ. 11. A. friabilis granis nigris cinereisque cretæ albæ ope cohærentibus.

Syſt. nat. XII. 3. *p.* 73. *n.* 7. Saxum cotaceum friabile calcareo-arenoſum.

Habitat in inſula S. Helenæ, *friabilis, calcem uſtione exhibens flaveſcentem & arenoſam.* Ekeberg.

livonicus. 12. A. canus ad aërem indureſcens, granis minoribus creta alba conglutinatis.
Cronſt. miner. §. 274. 2. 2. Lapis arenaceus glutine calcareo, particulis inviſibilibus.
Waller. ſyſt. miner. 1. *p.* 192. Quadrum albeſcens.
Habitat in Livonia, *uſtione flaveſcens.*

ſcanicus. 13. A. granis viridibus pellucidis, marmore albo conglutinatis.
Cronſt. miner. §. 274. 2. 1.
Habitat in Scania *prope* Backeskog.

calcarius. 14. A. cinereus, granis minoribus cretæ ope conglutinatis.
Syn. nat. XII. 3. *p.* 62. *n.* 3. *Muſ. Teſſin.* 2. *n.* 2. Cos particulis glareoſis marmoreisque.
It. wgoth. 21. Calx hepatica.
Habitat in monte Sueciæ Kinnekulle, *ſtratum infimum conſtituens, candefactus cum ſono violento diſſiliens; an vere diſtincta ſpecies?*

Quadrum. 16. A. duriuſculus, granis minoribus margæ ope conglutinatis.
Syſt. nat. I. *p.* 147. *n.* 1. XII. 3. *p.* 61. *n.* 2. *Muſ. Teſſin.* 2. *n.* 1. 3. *Schreb. lit.* 1. Cos particulis glareoſis margaceo argillaceis, bibula ſubfferveſcens.
Waller. miner. 75. Cos particulis minimis glareoſis mollis cædua.
Waller. ſyſt. miner. 1. *p.* 191. *n.* 4. Cos particulis impalpabilibus, efferveſcens mollis cædua.
Vogel. miner. 110. Cos cædua, Quadrum Cæſalpini.
Worm. muſ. 57. Arenarius ex Gotlandia.
Cronſt. miner. §. 274. 1. 2. Lapis arenarius glutine argilla communi.
Habitat in Gotlandia & Dalecarlia Sueciæ, *in* Anglia, Germania, Gallia (*comitatu* Ruſcinonenſi,) *ut plurimum canus, interdum griſeus, flaveſcens aut rubens, rimas horizontales & obliquas agens, in ſolo humidus & facillime cæduus, ad aërem indureſcens, ſub dio fatiſcens, in ſicco bibulus, gelu diſſiliens, architectorum uſu clarus.*

ſulphureus. 15. A. granis ſuilli ope conglutinatis.
Heidinger phyſ. Arb. eintr. Fr. zu Wien I. 4. *p.* 7. Schwefelſtein.
Habitat in ſaliſodinis Calliciæ *prope* Wieliczka.

c. cæmento argillaceo.

porcellanus. 17. A. granis argillæ porcellanæ ope conglutinatis.
Syſt. nat. XII. 3. *p.* 64. *n.* 14. Cos particulis arenaceis argillaceisque.
Cronſt. miner. §. 274. 1. 1. Lapis arenaceus glutine argilla porcellanea.
Habitat in Scaniæ *fodina lithanthracum prope* Boſerup, *in ſolo mollis, ad aërem indureſcens, igne non liquandus.*

Fahlunenſis. 18. A. granis minimis albis argillæ vulgaris rufæ ope conglutinatis.
Syſt. nat. I. *p.* 186. *n.* 2. XII. 3. *p.* 74. *n.* 11. Saxum cotaceum rufum, atomis quartzoſis albis.
Habitat Falhunæ *in* Suecia, *conſtituens baſin cuprifodinæ.*

coloratus. 19. A. granis minoribus ſubæqualibus tinctis.
Syſt. nat. XII. *p.* 64. *n.* 13. Cos particulis arenaceis ſubæqualibus colorata.
Habitat hinc inde, *flavus, viridis, cæruleus aut ruber; an diſtincta hujus tribus ſpecies?*

ſtratarius. 20. A. durus, granis æqualibus diaphanis.
Syſt. nat. I. *p.* 147. *n.* 4. XII. 3. *p.* 63. *n.* 12. *Muſ. Teſſin.* 4. *n.* 8. *It. ſcan.* 329. Cos particulis arenaceis quartzoſis æqualibus diaphanis compactis.
Habitat paſſim *frequens, copioſus in* Scania, *ad aërem indureſcens, ſub mari ſalſus, hinc antequam muris inſeratur, elixandus.*

friabilis. 21. A. granis minimis laxiſſime cohærentibus.
Syſt. nat. XII. 3. *p.* 63. *n.* 8. Cos particulis arenaceis digito friabilibus.
Habitat Helſingburgi *in* Scania.

fiſſilis. 22. A. in tabulas fiſſilis.
Syſt. nat. XII. 3. *p.* 62. *n.* 7. Cos particulis arenaceis fiſſilibus, lamellis fragilibus.
Waller. miner. 76. Cos lamellis fiſſilibus.
Waller. ſyſt. miner. 1. *p.* 196. *n.* 7. Cos in lamellas fiſſilis.
Carth. miner. 28. Arenarius fragmentis fiſſilibus.
Habitat frequens in Suecia, Anglia, Hiſpania, Germania, *duritie, colore (albo præſertim & ruteſcente,) granorum magnitudine & pelluciditate, tabularum, in quas finditur, craſſitie varians, niſi nimis ſit poroſus, tectis inſerviens.*

glareoſus. 23. A. mollis, granis minimis.
Waller. ſyſt. miner. 1 *p.* 183. *n.* 2. Cos glareoſa, particulis impalpabilibus, mollis.
Habitat paſſim in Suecia, Anglia, *regno* Peruviano, *griſeus, rubens, flaveſcens aut vireſcens.*

d. *cæmenti locum ſupplente calce metallica.*

amnigenius. 24. A. durus, granis parciore ferri calce conglutinatis.
Syſt. nat. XII. 3. *p.* 80. *n.* 38. *Muſ. Teſſin.* 72. Saxum lapillis ſabulis ochra connatum.
Cronſt. miner. §. 274. 4. Lapis arenaceus ochra martis conglutinatus.
Habitat hinc inde in Germania, Suecia, *potiſſimum* Oſtrobothnia, *ſemper coloratus, ruber vel flavus, accolæ fluvii* Haukipudas *in* Oſtrobothnia *ſabulum e fundo fluvii effodiunt, in acervos colligunt & per unum alterumque annum ſub Dio relinquunt, hoc temporis ſpatio ita conferruminatum, ut focum exinde ſtruant.*

ferruginoſus. 25. A. granis largiore ferri calce conglutinatis.
Cronſt. miner. §. 246. 4. Eiſenſanderz.
Habitat paſſim in Germania, *ferri adeo dives, ut cum fructu eliquari poſſit.*

colbatifer. 26. A. granis cobalti calce conglutinatis.
Cronſt. miner. §. 276. 3.
Habitat in Sueviæ *fodinis.*

cuprifer. 27. A. granis æruginis ope conglutinatis.
Cronſt. miner. §. 276. 2.
Habitat in Sibiriæ, Haſſiæ *fodinis.*

β) *magis compoſſiti*

griſeus. 28. A. granis inæqualibus argillæ induratæ ope conglutinatis, quartzi & ardeſiæ fragmentis ſæpius innidulantibus.
v. Trebra Erf. v. Inn. d. Geb. Br. 5. *p.* 69. *Ilſemann & Weſtrumb chem. Ann.* 1785. 2. *p.* 431. & 1786. 2. *p.* 241. *Laſius Beob. ub. d. Harzgeb.* 1. *p.* 141. Grauwacke.
Habitat in Sibiriæ Uralenſibus, Saxoniæ (*prope* Braunſdorf,) Franconiæ (*in principatu* Coburgenſi & Meinungenſi,) Naſſoviæ *montibus, ad* Rheni *ripas, frequentiſſimus in* Hercynia, *ſtratis cum ſtratis ardeſiæ & lydii alternantibus, venis metallicis fœtus, argilla ex cæruleſcente cinereo in nigrum vergente, granis utplurimum albis, rarius vireſcentibus aut rubris, ceterum*

magnitudine & proportione mirifice variis, interdum ſpati venis exaratur, aut bitumine perfuſus, aut animalium, aut vegetabilium veſtigia ferens, rarius mica innidulante conſpicuus.

novacularis. 29. A. granis minoribus micæ miſtis.
Syſt. nat. XII. 3. *p.* 74. *n.* 12. *It. ſcan.* 80. Saxum cotaceum albo-micaceum incarnatum ſubſtriatum.
Waller. ſyſt. miner. 1. *p.* 193. *n.* 5. Cos ſaxoſa, particulis diſtinctis, arenaſeo-micaſeis, fragilis.
β) *Syſt. nat.* XII. 3. *p.* 75. *n.* 13. *It. ſcan.* 129. Saxum (Stenonis) cotaceum flaveſcens, micis minutiſſimis nigris.
γ) *Syſt. nat.* I. *p.* 186. *n.* 1. XII. 3. *p.* 74. *n.* 9. Saxum (undulatum) cotaceum ſubfiſſile ruſum undatum, atomis micaceis ſparſis.
Syſt. nat. p. 148. *n.* 7. Cos particulis angulatis opacis, ſuperficie undulata.
Habitat paſſim in montibus & rupibus arenariis, potiſſimum recentioribus, ruſeſcens, β) flaveſcens, γ) ruſus, mica alba, aut in β) nigra, illius particulis nunc oblongis & longitudinaliter congeſtis, nunc punctatim inſperſis, coticulæ loco ad enſes cultrosque acuendos inſerviens, β) montem Scaniæ Stenshufwud *conſtituens, γ) durus in* Dalecarlia *inter* Sernam & Limam *obvius, in laminas craſſas undulatas fiſſilis.*

molaris. 30. A. durus, ex granis inæqualibus angulatis quartzi & feldſpati interſperſa mica compoſitus.
Syſt. nat. I. *p.* 148. *n.* 6. XII. 3. *p.* 64. *n.* 15. *Muſ. Teſſin.* 4. *n.* 10. Cos particulis inæqualibus quartzoſis glareoſiſque.
Waller ſyſt. miner. 1. *p.* 199. *n.* 10. Cos particulis majoribus ſabuloſis diverſæ naturæ coalita.
Carth. miner. 27. Arenarius durus granulis inæqualibus.
Wolt. miner. 14. Arenarius ex ſabulo compactus.
Coſt. foſſ. 137. Saxum arenarium, Lapis molaris.
β) *Syſt. nat.* I. *p.* 187. *n.* 16. XII. 3. *p.* 75. *n.* 17. Saxum (molinum) cotaceo-quartzoſum micaceum.
Habitat paſſim in Europa, *potiſſimum in* Sueciæ *provinciis* Uplandia, Sudermannia, Scania, β) *in* Smolandia, Weſtrogothia, Fennonia, *partium conſtituentium indole ad granitem accedens, quartzi granulis pellucidis majoribus, feldſpati minimis, magis opacis & cinereis, in frumenti molendinis frequenter adhibitus.*

compactus. 31 A. durus, quartzi granis minimis ochroleucis & granati rubris.

Syſt. nat. I. *p.* 147. *n.* 3. XII. 3. *p.* 63. *n.* 11. *Muſ. Teſſin.* 4. *n.* 7. Cos particulis arenaceis impalpabilibus compactiſſimis.

β) *Syſt. nat.* I. *p.* 187. *n.* 14. XII. 3. *p.* 78. *n.* 28. Saxum (punctatum) micaceum fiſſile incarnatum, granis granatinis.

Habitat in Sueciæ *provinciis* Dalecarlia, Weſtrogothia, β) *in* Scania, *occurrens, fiſſilis, mica argentea interſperſa diſtinctus.*

radians. 32. A durus, ſcorli nigri columnis ſtellatim digeſtis granatique purpurei granis inſperſis variegatus.

Syſt. nat. XII. 3. *p.* 74. *n.* 10. Saxum cotaceum ſtriis atris radiantibus granatisque ſparſis.

Habitat in Sueciæ *monte argenteo occidentali, pallidus.* Tidſtrom.

decuſſatus. 33 A. durus ex albo ruſeſcens, hornblendæ, ſquamis atris erectis & decuſſantibus varius.

Syſt. nat. I. *p.* 186. *n.* 8. XII. 3. *p.* 75. *n.* 15. Saxum cotaceum quartzoſum incarnatum, micis ſparſis atris erectis decuſſantibusque.

Habitat in Suecia (Kallmorac).

frumentalis. 34 A. talci lamellis interſperſis maculisque lanceolatis varius.

Syſt. nat. XII. 3. *p.* 75. *n.* 16. *Muſ. Teſſ.* 72. Saxum cotaceo-talcoſum, maculis lanceolatis ſparſis.

Habitat in Germania.

variolofus. Tigerſtern. 35. A. albus foraminibus ferrugineis pertuſus aquam tranſmittens, granis minoribus.

Syſt. nat. XII. 3. *p.* 62. *n.* 5. *Muſ. Teſſin.* 4. *n.* 6. Cos particulis glareoſis, maculis ſparſis erоſis ferrugineis.

It. ſcan. 13. Cos ſolidiuſcula alba, cortice flaveſcente, maculis fuſcis friabilibus.

Habitat in Nericia & Weſtrogothia Sueciæ, *maculis & foraminibus a pyritæ glandulis innidulantibus in ochram fatiſcentibus natis.*

CLASSIS II.

SALIA.

62. NATRUM. Saporis lixivioſi.

63. BORAX. Igne ſpumans et paulo fortiori in vitri ſpeciem abiens.

64. MURIA. Aquam fortem in aquam regiam convertens.

65. NITRUM. Acido vitrioli fortiſſimo irrigatum vapores rutilos eructans.

66. MIRABILE. Cum carbonum pulvere igni candenti expoſitum ſulphur exhibens, ſolutione aquoſa a natro non turbata.

67. AMARUM. Saporis amari, ſolutione aquoſa a natro turbata.

68. ALUMEN. Saporis auſteri, ſolutione aquoſa a lixivio cærulei Berolinenſis non turbata.

69. VITRIOLUM. Saporis auſteri, ſolutione a lixivio cærulei Berolinenſis turbata.

S A L I A.

62. NATRUM. Saporis lixivioſi.

Cum facidis efferveſcens; factas terrarum metallorum in acidis ſolutiones turbans.

antiquorum. 1. N. inodorum ſiccum purius.

Syſt. nat. XII. 3. *p.* 88. *n.* 1. Natrum nudum terreſtre.

Woltersd. min. p. 298. Sal perſicum.

Waller. miner. 181. Alcali orientale impurum terreſtre antiquorum.

Wall. ſyſt. min. 2. *p.* 61. *n.* 1. Alcali minerale impurum terreſtre.

Cronſt. miner. §. 135. 1. 1. Alcali minerale purum.

Juſt. miner. 267. Sal alcali minerale.

Habitat in Sina, Bengala, Caucaſi *parte meridionali & ſeptentrionali*, Syria, Ægypto, Nubia, Teneriffa, *meridionali potiſſimum* America, Dania (*in* Hafniæ *muris efflorescens*,) Italia (*in* Veronenſis *arcis fornicibus*,) *in* Helvetiæ *antris nonnullis*, in Franconia (*ex mœniis* Erlangenſibus e. g. *efflorescens*) Bohemia (*prope* Bilin,) & Hungaria, *heic ericeta a* Debrezino *ad* Sigethum *uſque protenſa vere & æſtate pruinæ ad inſtar operiens, crebro creta, ferri calce, magis adhuc muria & mirabili inquinatum, album, & gneiſſo non raro efflorescens modo purum ſit, totum aqua ſolvendum, qua ſenſim exhalente in cryſtallos abit tetraedro-priſmaticas utrinque in aciem terminatas clariſſimas quidem, & ad aërem cito in pulverem impalpabilem niveum fatiſcentes, cum calce & oleo egregium ſaporem exhibens, igne facile liqueſcens, cum terra ſilicea in vitrum egregium convertendum.*

aciduiare. 2. N. inodorum aqua ſolutum.

Waller. ſyſt. miner. 2. *p.* 63. *n.* 2. Alcali minerale in acidulis & thermis hoſpitans.

Habitat in acidulis *& thermis pluribus, etiam* Germaniæ, e. g. Selteranis, *in Ægypti lacubus quibusdam*, Alexandriæ & Roſettæ *interjectis.*

murorum. 3. N. inodorum cum tetra calcarea commiſtum.

Syſt. nat. I. *p.* 161. *n.* 3. *It. ſcan.* 299. Natrum murorum.

Syſt. nat. XII. 3. *p.* 88. *n.* 2. Natrum nudum calcarium.

Cartheuſ. miner. 32. Alcali fixum, muris fornicatis adhærens.
Cronſt. min. §. 136. Alcali ſalis communis terra calcarea parva portione combinatum.
Woltersd. miner. 300. Aphronitrum.
Lerch. oryctol. 44. Aphronitrum ſ. flos ferri ex antiquis muris.
Wall. ſyſt. miner. 2. *p.* 65. *n.* 3. 1. Alcali minerale calcarea terra mixtum, corporibus ſuperficialiter adhærens magis compactum.
β) *Syſt. nat.* I. *p.* 161. *n.* 1. Natrum marmoris.
It. oel. 147. Sal calcarium.
Habitat in muris calcis ope *exſtructis* v. g. *in mœniis urbis vetuſtæ tataricæ* Bolghari, β) *in* Marmore, *pruinæ inſtar effloreſcens, non totum aqua ſolvendum.*

volatile. 4. N. fœtidum terris aliisve ſalibus immiſtum.
Cronſt. min. §. 141. 2. Alcali volatile terris mixtum.
Waller. ſyſt. miner. 2. *p.* 68. *n.* 1. Alcali volatile nudum terris & lapidibus inhærens.
Halinatron. β) *Waller. ſyſt. miner.* 2. *p.* 64. *n.* 3. b. Aphronitrum ſtriatum fœtens.
Habitat in humo, creta, ſuillo, argillis, β) *in natro murorum, ex corporibus vivis deſtructis ortum trahens.*

63. BORAX. Saporis ad lixivioſum accedentis.
Subponderoſa, ſemipellucida, nitens, inodora, fixiſſima.
Aquam plurimam, ut ſolvatur, requirens, ſolutione a natro non turbata.
Igne facilime liquanda in vitrum clariſſimum, & alia quoque corpora fixa ſecum in vitrum convertens.

ſedativa. 1. B. purior nulli natro intricata, ad aërem non mutabilis.
Hoefer ſal ſale ſedativo naturale di Toſcana. *Flor.* 1778. 8.
– *Maſcagni* dei lagoni del Seneſe e del Volterrano. *Sien.* 1779. 8.

Habitat in Hetruria, *partim aqua ſoluta, partim formæ glebularum utplurimum nivearum, interdum ſordidarum, ardeſiæ aut luto lacuum Sienenſium & Volterraneorum adhærens, cum natro in verum ſal neutrum abiens, ſquamis argenteo nitore conſpicuis, attactu pinguibus conſtans, vix in veras cryſtallos cogenda, vini quoque ſpiritu ſolvenda & flammæ qua hic ardet, colorem in viridem convertens.*

Tincal. 2. B. natro dominanti juncta, in aere ſatiſcens.
Syſt. nat. XII. 3. *p.* 94. *n.* 1. Borax nudus.
Waller. miner. 191. & 192. Borax crudus cæruleſcens hexangularis & Borax depuratus albus octangularis.
Waller. ſyſt. miner. 2. *p.* 82. & 85. *n.* 1. 2. Borax crudus ſaponaceus & Borax ſale alcalino minerali mixtus.
Cronſt. miner. §. 138. Borax.
Grill. & Engeſtrom act. Stockh. 34. *p.* 317. 319. Poun.
Blane, Rovato & Saunders act. angl. 77. 2. *p.* 297. 302. & 79. 1. *p.* 97.
Habitat in India, Japonia, *regno* Tibetano & Peruano, *partim aquæ ſoluta, ex qua ſicco calidoque anni tempore immenſis interdum maſſis fundum petit, partim forma ſolida granorum, fabarum, cryſtallorum exilium ſemipellucidarum ad ſui ſolutionem, frigidæ ſaltem aquæ multum requirens, qua partim exhalante in cryſtallos duras pellucidas, tranſverſim ſubtiliſſime ſtriatas, priſmaticas, utrinque pyramide triedra terminatas, nunc hexaedras* (f. 10. 34.) *nunc tetraedras* (f. 14.) *abit, igne facillime fluens, primo in ſpumam niveam opacam, poſtea in vitrum abiens & alia etiam corpora ſecum in vitrum convertens, hinc metallis, præſertim nobilioribus coadunatis, gemmis arte paranais &c. inſerviens.*

64. MURIA. Saporis ſalſi.

Facile aqua ſolvenda, ſolutione a natro non turbata.

Cum acidis dilutis non efferveſcens, ab acido vitrioli fortiori infuſo excalefacta, efferveſcens & vaporem cinereum ſuffocantem tetri odoris eructans.

Aquam fortem in aquam regis commutans.

aquatica. 1. M. fixa decrepitans formæ cubicæ aqua ſoluta.

marina. α) *Syſt. nat.* I. *p.* 164. *n.* 1. XII. 3. *p.* 98. *n.* 1. *Wall. Syſt. miner.* 2. *p.* 55. *n.* 4. a. b. d. Muria marina.
Cronſt. miner. §. 130. Sal marinum.
Woltersd. miner. 23. Sal commune nudum aquæ marinæ.

lacuſtris. β) *Cartheuſ. miner.* 37. Muria lacuſtris.
Waller. ſyſt. miner. 2. *p.* 56. *n.* 4. c. Sal marinum in fundis lacuum concretum.

fontana. γ) *Syſt. nat.* I. *p.* 164. *n.* 2. XII. 3. *p.* 98. *n.* 2. *Waller. ſyſt. miner.* 1. *p.* 57. *n.* 5. *Schreb. lithol.* 42. Muria nuda fontana.
Cronſt. miner. §. 131. Sal fontanum.
Woltersd. miner. 23. Sal commune nudum aquæ fontanæ.

thermalis. δ) *Syſt. nat.* XII. 3. *p.* 98. *n.* 4. Muria nuda thermalis.
Habitat α) *in* mari *omni*, β) *frequens in* imperii ruſſici *partibus orientalibus & meridionalibus*, γ) *per omnem terrarum orbem, frequens quoque in* Germania, δ) Aponi *in* Italia, *aqua aëris & ignis auxilio avolante & reliquis heterogeneis ſeparatis excocta, rarius niſi ex lacubus ſicco anni tempore aut ſummo atmoſphæram ſtringente frigore ſponte delabens.*

montana. 2. M. fixa decrepitans ſicca pura, cum vitrioli acido mirabile genuinum producens.
Syſt. nat. I. *p.* 164. *n.* 3. XII. 3. *p.* 98. *n.* 3. Muria nuda foſſilis.
Waller. ſyſt. miner. 2. *p.* 53. *n.* 1. Muria foſſilis pura.
Cronſt. miner. §. 129. Sal montanum.
Woltersd. miner. 23. Sal commune nudum ſolidum foſſile.
Dal. pharmac. 30. *Geſn. figur.* 34. b. Sal gemmæ.

β) efflorescens.

γ) *Muſ. Teſſin.* 36. *n.* 4. Muria nuda ſtalacticoſa perforata.

δ) forma cubica, Zielona, Grünſalz.

Habitat in vicinia fontium *&* lacuum ſalſorum, *in* India, Armenia (*præſertim prope* Teflis,) Arabia, Perſia *regno* Tibetano, Sibiria (e. g. *prope* Orenburg & Ilezku,) Moldavia, Wallachia (*prope* Ocria,) Tranſilvania (*prope* Torda, Dees & Parait,) Hungaria *ſuperiore* (*prope* Soowar, Marmoros, Ronaſek, Eperies,) Gallicia (*prope* Wieliezca & Bochnia,) Sileſia, Auſtria *ſuperiori* (*prope* Gmünd, Iſchel & Hablſtadt,) Stiria (*prope* Auſſee,) Berchtesgada, Salisburga (*prope* Hallein,) Tiroli (*prope* Halle,) Calabria (*prope* Altomonte,) Sicilia (*prope* Caſtrogiovani, Camerata, la Cattolica, Regalmutto, Caltaniſetta,) Hiſpania (*prope* Cortona, Cervera, Valtiera & Mingranilla,) Anglia (*prope* Northwich,) *regno* Chilenſi) *provinciis* Copiapio & Coquimbo,) & Peruano (*prope* Julloma & Yocalla, & *ad fluvium* Longacallo, *etiam in* Algeria, *in hac integros paſſim montes, in aliis terris immenſas, quamcumque dimenſionem reſpicias, maſſas conſtituens, materies fontium ſalſorum, in fragmenta granularia ſecedens, nunc pellucida, nunc ſemipellucida, nunc diaphana, nunc recte, rarius incurvo-lamelloſa, nunc parallele, crebrius incurvo-fibroſa, nunc nebuloſa, aquæ guttam interdum includens, aut ſphæricis ſuperficiei impreſſis veſtigiis conſpicua, intus nitens, tritura cana, utplurimum alba aut margaritacea, nonnunquam nigricans, nigra, vireſcens, flaveſcens, flava, rufeſcens, carnea, ſpadicea, violacea, lavendulacea aut cærulea aut variegata.*

impura. 3. M. decrepitans fixa ſicca, cum vitrioli acido mirabile genuinum generans, terræ miſta.

α) *Waller. ſyſt. miner.* 2. *p.* 54. *n.* 2. Muria foſſilis terra mineraliſata.

β) *Waller. ſyſt. min.* 2. *p.* 55. *n.* 3. Muria foſſilis lapide mineraliſata.

Habitat in Galliciæ, Salisburgi *ſalifodinis, gypſo, humo, margæ, argillæ intermiſta muria, aut argilla muriæ interſperſa.*

febrifuga. 4. M. fixa decrepitans ſicca cum vitrioli acido mirabile potaſſinum progenerans.

Prouſt. Beytr. z. chem. Ann. 3. *p.* 466.

Habitat rarior in Hiſpania, *ex aqua exhalante forma cubi delebens.*

ammonia- 5. M. acris igne in fumum album convertenda cum calce ca. trita odorem alcalinum emittens, ad aërem humeſcens.
Cronſt. min. §. 132. Sal commune alcali volatili ſaturatum.
α) *Waller. ſyſt. miner.* 2. *p.* 77. *n.* 1. Sal ammoniacum in floras vel laminas concretum.
Model üb. ein natürl. oder gewachſ. Salmiak. Leipz. 1758. 8.
β) *Waller. ſyſt. miner.* 2. *p.* 78. . 2. Sal ammoniacum in glebas igne ſubterraneo concretum.
Ferber Br. a. Welſchl. 11. *p.* 182.
Habitat α) purior diaphana in Perſia, Turcheſtania *potiſſimum*, & Calmuckia, *ex ſuperficie terræ, vel rupibus efflorefcens, β) in montibus ignivomis aut aliis terræ incendio devaſtatis*, e. gr. *in* Veſuvio, Solfatara, *in* Ætnu *vicinia, in inſulis* Æoliis, *etiam in* Angliæ *nonnulis lithanthracum fodinis, rarius pura alba diaphana, quam ſulphure, alumine, vitriolo ferri tincta colore flavo, ex flaveſcenti cinereo, ſordide pomaceo aut atro, facilime aqua ſolvenda, & hac avolante in ſpicula flexilia concreſcens, modo, quo ſibi mutuo nectuntur, pennæ radios referentia.*

65. NITRUM.

Saporis amaricantis, refrigerantis.
Facile aqua ſolvendum, ſolutione a natro infuſo non turbata.
Cum acidis dilutis non efferveſcens, ab acido vitrioli fortiſſimo infuſo vapores rutilos acres ſuffocantes eructans.
Prunis inſperſum detonans.

nativum. 1. N. fixum nudum purum non deliqueſcens, aqua qua ſolutum fuerat, exhalante cryſtallos hexaëdro-priſmaticas utrinque pyramide hexaëdra inæquali terminatas exhibens.
Fortis del nitro minerale. Neap 1787. 8.
E. W. Zimmermann voyage à la nitriere naturelle, qui ſe trouve à Molfetta en Pouille. *A Paris* 1789. 8.
Habitat in Virginia, *regno* Peruano, Hiſpania, Sicilia, Calabria, & *potiſſimum* Apulia, *album, refrigerans & putredinem arcens, igne facile liqueſcens, aliaque ſecum corpora liquans, hinc in parandis vitris, & fundendis metallis nobilioribus adhibitum, pulveris pyrii princeps mate-*

ria, aquam fortem quoque exhibens, rarius forma cryſtallorum, earumque quidem exilium, quam bracteolarum, bacillorum, cruſtæ aut efflorescentis quaſi lanæ obvium.

humoſum. 2. N. fixum ad aërem non deliqueſcens, aqua qua ſolutum fuerat exhalante in priſmata hexaedra utrinque pyramide hexaedra inæquali terminata concreſcens, humo aut cretæ miſtum.

Syſt. nat. I. *p.* 163. *n.* 1. XII. 3. *p.* 84. *n.* 1. Nitrum (nativum) humoſum.

Woltersd. miner. 23. Nitrum nudum humoſum.

Waller. miner. 165. *ſyſt. miner.* 2. *p.* 45. *n.* 1. Nitrum terra mineraliſatum.

Habitat in ædificiorum partibus humidis, ſoli & pluviæ *minus expoſitis aut maris undis crebro humectatis, his funeſtiſſimum, alba utplurimum efflorescentia ſe prodens.*

cubicum, 3. N. fixum, aqua qua ſolutum fuerat exhalante in cryſtallos rhombicas concreſcens.

Nauwerk chem. Annal. 1784. 2. *p.* 314.

Habitat utplurimum cum nitro humoſo, *rarius* e. g. *in cella quadam* Hercyniæ *inferioris ſolum ex muris efflorescens.*

flammans. 4. N. prunis inſperſum in fumum abiens, a calce intertrita odorem alcalinum ſpargens, ad aërem deliqueſcens.

Cartheuſ. miner. 38. Nitrum ſemivolatile terræ immixtum.

Habitat cum nitro humoſo.

66. MIRABILE. Saporis amari.
Paulo difficilius aqua frigida ſolvendum, ſolutione a natro non turbata.
Cum acido nullo efferveſcens.
Cum carbonum pulvere igni candenti expoſitum hepar ſulphuris exhibens.

genuinum. 1. M. ſaporis refrigerantis igne facile liquandum, aqua qua ſolutum fuerat ſenſim exhalante in cryſtallos pellucidiſſimas priſmata hexaedra inæquilatera referentes ad aërem fatiſcentes concreſcens.
Syſt. nat. XII. 3. *p.* 89. *n.* 3. δ. Natrum nudum fontanum ſaturatum.
Woltersd. miner. 25. Natrum nativum acidularum.
Liſt. font. angl. Hoffm. diſſ. de ſal. carol. Sal purgans.
Cronſt. miner. §. 126. Acidum vitrioli alcali minerali ſaturatum.
Carth. miner. 38. Natrum thermarum & acidularum.
Waller. ſyſt. miner. 2. *p.* 79. *n.* 1. Sal neutrum compoſitum alcali minerali & acido vitriolico.
Habitat ſolutum in aquis mineralibus e. gr. thermis *Carolinis & una cum muria in* fontibus ſalſis *multis, ſiccum rarius cryſtallorum, ſtiriæ aut glebarum quam pulveris albi efflореſcentis forma, in muris* e. gr. Hafniæ, Hamburgi *humidiuſculis, in vicinia* ſalifodinarum (v. gr. *prope* Auſſee *in* Stiria,) *& in montibus* valeſiacis, *natroque antiquorum interſitum in* Helvetia, Stiria, Hungaria, *remedium purgans & refrigerans eximium.*

potaſſinum. 2. M. ſaporis debilioris, igni expoſitum decrepitans, nec niſi fortiſſimo liquandum, aqua difficilius ſolvendum, cryſtallis ad aërem conſtantibus.
Prouſt Beytr. z. chem. Annal. 3. *p.* 466.
Habitat rarius cum nitro humoſo in Hiſpania.

ſemivolatile. 3. M. acre igni expoſitum in fumos abiens ad aërem deliqueſcens, calci intertritum odorem alcalinum ſpargens.
Habitat rarius in montibus olim & nunc ignivomis.

ſulphureum. 4. M. igni expoſitum in fumos abiens ad aërem deliqueſcens, calci intertritum alcalinum, ab aqua forti affuſa ſulphuris ardentis odorem ſpargens.

Habitat in montibus ignivomis, *aliisque* terræ ſtratis *incendium foventibus*, *in* Solfatara Neapolitana, *in lacubus* (Lagoni,) *etiam prope* Caſtel nuovo Hetruriæ, *rarius album & purum*, *quam ſulphure*, *ferri vitriolo*, *riſigallo colore cinereo*, *flavo vel obſcuro tinctum*, *ſæpe texturæ fibroſæ*.

67. AMARUM. Saporis amari.

Aqua facillime ſolvendum, ſolutione a natro infuſo lacteſcente.
Ignis vi facillime liquandum, nec detonans, nec decrepitans.

genuinum. 1. A. in igne ſpumans, aqua, qua ſolutum fuerat exhalante cryſtallos exhibens ad aërem fatiſcentes tetraedro-priſmaticas, utrinque pyramide tetraedra terminatas.

Syſt. nat. XII. 3. *p.* 89. *n.* 3. Natrum nudum fontanum ſaturatum epſamenſe.

Waller. ſyſt. miner. 2. *p.* 71. *n.* 2. Sal neutrum compoſitum terra ſolubili alcalina & acido vitriolico.

Storr de ſale alpino diſſ. Tubing. 1787. 4.

Habitat frequens tum ſolutum in aquis multis medicatis, amaritie ſua efficacibus e. gr. Saidſchüzenſibus Bohemiæ, *tum ſiccum album, inſtar pulveris aut nivis aut ſpiculorum ſubtilium ſtellatim diſpoſitorum aut glebarum intus parallele fibroſarum ex marga, ardeſiis, lapide amaro ſaxisque ex eo partim conflatis, etiam in vicinia lithantracum effloreſcens, aut gipſo incluſum in* Hiſpania, *lacuum* Hetruriæ *ripis*, Modena, Parma, Pedemontia, Sabaudia, Rhætia, Helvetia, Salisburgo, Croatia, Bohemia, Thuringia, Hercynia, Anglia, Normannia.

muriaticum. 2. A. in aëre deliqueſcens, a vitrioli acido adfuſo aut ignis paulo majore violentia vapores cinereos acres tetri odoris eructans.

Habitat ſolutum in aqua maris *aliisque* ſalſis, *aquam fortem in regiam commutans*, *ſpiritu vini quoque ſolvendum.*

calcarium. 3. A. in aëre deliqueſcens, a vitrioli acido affuſo vapores cinereos acres tetri odoris, igni expoſitum nullos eructans.

Cronſt. miner. §. 21. Terra calcarea acido ſalis communis ſaturata.

Waller. ſyſt. miner. 2. *p.* 75. *n.* 6. Sal neutrum terra calcarea & acido ſalis compoſitum.

Habitat ſolutum in aqua maris *aliisque* ſalſis, *parumper ſiccum tempore diu ſicco prope* Hildeshemium *occurrens, ſimiliter aquam fortem in regiam convertens & ſpiritu vini ſolvendum, ſolutione a vitrioli acido inſtillato lacteſcente.*

nitroſum. 4. A. in aëre deliqueſcens, a vitrioli acido fortiori & calido infuſo vapores rutilos eructans, ſolutione aquoſa ab eodem acido non turbata.

Habitat in humo & muris, *cum nitro humoſo interdum efflorescens, in igne cum ſtrepitu intumeſcens, neque prunis injectum detonans, ſpiritu vini ſolvendum, aqua, qua ſolutum fuerat, ſenſim exhalante, in cryſtallos tetraedro-priſmaticas oblique truncatas concreſcens.*

murale. 5. A. in aëre deliqueſcens a vitrioli acido fortiori & calido infuſo vapores rutilos eructans, ſoluſione aquoſa ab eodem acido lacteſcente.

Waller. ſyſt. miner. 2. *p.* 46. *n.* 2. Nitrum terra calcarea mixtum, muris lapidibus aut ſaxis ſuperficialiter inhærens.

Habitat utplurimum cum nitro humoſo, *vini ſpiritu quoque ſolvendum.*

animale. 6. A. non deliqueſcens igne difficilius liquandum, ejus tamen vi vapores rutilos eructans.

Sage act. Pariſ. ann. 1777. *p.* 433.

Habitat paſſim cum nitro humoſo, *ex nitri acido oſſiumque terra conflatum.*

68. ALUMEN. Saporis auſteri, dulciuſculi.

Solutione aquoſa a natro quidem, neque tamen a lixivio cærulei Berolinenſis turbata.

Ignis prima vi cum ſpuma liqueſcens, in maſſam ſpongioſam abiens, vel ſumma ejus violentia mox vix liquandam.

Phoſphoreum. 1. A. igni violentiori expoſitum diſſiliens, ex phoſphori acido & terra aluminari conſtans.

Prouſt Annal. de chim. 1. *n.* 8. *p.* 196. Grenat de Valence.

Habitat in Valentia Hiſpaniæ. *an hujus claſſis & generis?*

muriaticum. 2. A. igni violentiori expoſitum aut vitrioli acido fortiori irrigatum vaporem cinereum acrem tetri odoris eructans.

β) *Balduſſari act. Sien.* 4. *p.* 1. &c. Sale di creta.

Habitat β) *in parte* Hetruriæ Sienenſi, *tempeſtate ſicca in ſolo argilloſo pulveris inſtar progerminans, etiam in antris rupiumque fiſſuris lanæ aut cruſtæ albæ facie obvium, ſaporis tamen potius amari, quam auſteri.*

nativum. 3. A. a vitrioli acido adfuſo nullos vapores emittens, nudum ſiccum.

Syſt. nat. I. *p.* 165. *n.* 1. XII. 3. *p.* 101. *n.* 1. Alumen nudum

Wall. miner. 171. *ſyſt. miner.* 2. *p.* 32. *n.* 1. Alumen nativum.

Carth. min. 41. Alumen nudum purum.

Cronſt. miner. §. 124. 2. 2. 1. Acidum vitrioli argilla ſaturatum.

α) forma pulveris efflorescentis.

β) ſolidum formæ communis, inconſpicuum.

γ) ſolidum inconſpicuum, forma ſtalactitæ.

δ) ſolidum ſerici inſtar nitens, intus fibroſum.

Wolt. min. 21. Alumen nativum plumoſum.

ε) cryſtallis pyramidem tetraëdram duplicem referentibus. Fig. 23.

Habitat in Ægypto, *inſula* Milo *aliiſque* Archipelagi, Malta, Æoliis *multis*, *potiſſimum* Lipari, Volcano, Stromboli, *in* Sicilia (e. gr. *prope* Petraglia, Gampiglieri & *ad montem* Roſſo,) *in* Veſuvio & Solfatara *regni* Neapoli-

tani, *in lacubus*, (Lagoni) Etruriæ, *in* Helvetia (*e. gr. ad montem* S. Gotthardi,) *in* Stiria (*prope* Schladming,) *in* Auſtria (*prope* Crems,) *in* Bohemia, Hungaria, Lapponia Lalenſi, Suecia (*ad montem* Hunneberg,) *frequentiſſime in ardeſiis nidulans, aut ex iis ſub dio effloreſcens, facile in cryſtallos duras, pellucidas, in aëre conſtantes concreſcens, artificum & medicorum uſu celebre.*

ſolutum. 4. A. a vitrioli acido adfuſo nullos vapores eructans nudum, aqua ſolutum.
Richter chem. Annal. 1788. 1. *p.* 324.
Habitat paſſim in Sibiria, Italia, *prope* Halam Magdeburgicam.

Halotrichum. 5. A. a vitrioli acido adfuſo nullos vapores eructans ſiccum non deliqueſcens fibroſum nitoris ſericei.
Scopoli de hydrargyro Idrienſi tentam. Venet. 1761. *p.* 68.
Habitat in Sicilia *fodinis ad montem* Niſo *in* Carnioliæ Idrienſibus, *in* Hetruriæ *lacubus*, *in* Hiſpania *prope* Almaunez, *in* Hungaria *prope* Neoſolium, *in* Auſtriæ (*prope* Goettwig) & Auſſiæ (*prope* Whitehaven) *lithanthracibus, niveum ad aërem flaveſcens, & nitorem amittens, fibris confertis, utplurimum parallelis & incurvis, rarius ſtellatim diſpoſitis.*

butyraceum. 6. A. in ſolo nativo flavum, molle & attactu pingue, ad aërem ſolideſcens album cerei nitoris lamelloſum.
Habitat in Sibiria, & (*prope* Muſkau) *ſuperiori* Luſatia, *parte acidi, non terræ aluminari, ſed ferri calci juncta.*

terreum. 7. A. a vitrioli acido adfuſo nullos vapores eructans, argillæ molli immiſtum.
Waller. ſyſt. miner. 2. *p.* 23. *n.* 3. Alumen terra mineraliſatum.
Habitat frequens in vicinia montium ignivomorum Ætnæ & Veſuvii, *in inſula* Milo, *in* Occitania Galliæ (*inter* Vals & Aſprejone,) *in* Auſtria (*prope* Crems,) Hungaria (*prope* Tajoba,) Luſatia *ſuperiori* (*prope* Muskau,) Marchia *prope* Freyenwalde,) Saxonia (*prope* Torgau, Düben & Schwemſel,) Thuringia (*prope* Ekardsberg,) & Scania (*prope* Boſerup,) *rarius album, quam a bitumine, quo perfuſum eſt, fuſcum, vel nigrum, turcatum utplurimum cum fumo tetri odoris, & cum flamma ardens, interdum ſponte ſub dio exardeſcens, non raro tum demum alumen ſuum manifeſtans*

romanum. 8. A. a vitrioli acido adfuſo nullos vapores eructans, linguæ adhærens inquinans argillæ induratæ puriori mixtum.

Syſt. nat. I. *p.* 165. *n.* 3. XII. 3. *p.* 102. *n.* 3. alumen marmoris.

Waller. miner. 174. *ſyſt. miner.* 2. *p.* 34. *n.* 4. Alumen lapide calcareo albo aut rubente mineraliſatum.

Cronſt. miner. §. 124. 2. 2. 1. Argilla pura acido vitrioli imbuta.

Ferber Br. a. Welſchl. 15. *p.* 238.

Mazéas act. Pariſ. peregr. 5.

Sc. Breislac ſagg. di oſſerv. ſulla Tolfa &c. Rom. 1786. 8.

(Andreæ) Br. a. d. Schweiz. 1763. *p.* 236.

Habitat in Helvetia, *in monte* S. Gotthardi *&* Briſtenſtock *integras excelſos rupes conſtituens pyritæ punctulis aut vitrioli ferri glebulis perfuſas, venulis montem percurrens in* Anglia (*prope* Whitby,) *&* Britannia (*prope* Poliniere,) *hinc inde in* Hetruria, *potiſſimum in* Statu eccleſiaſtico (Tolfæ *prope* Centumcellas,) *hic quoque in montes ſatis excelſos aggregatum, quartzi albi venis hinc inde tranſeuntibus, cum acidis non efferveſcens, poſt aliquam demum ſub dio moram, aut uſtionem alumen prodens, album, roſeum, cinereum aut margaritaceum.*

commune. 9. A. ab acido vitrioli infuſo nullos vapores eructans, ardeſiæ bitumine perfuſæ immiſtum.

Syſt. nat. I. *p.* 165. *n.* 2. XII. 3. *p.* 101. *n.* 2. Alumen ſchiſti.

Cartheuſ. miner. 41. Alumen fiſſili inhærens.

Woltersd. miner. 21. & 152. Alumen bituminoſum lapideum & Schiſtus aluminoſus.

Waller. miner. 173. Alumen lapide fiſſili mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 35. *n.* 6. Alumen ſchiſto mineraliſatum.

Cronſt. miner. §. 124. 2. 3. Argilla martialis & phlogiſtica acido vitrioli imbuta.

α) molliſſimum attactu macrum in fragmenta trapezoidea diſſiliens.

Cronſt. miner. §. 124. 2. 3. 1. Schiſtus aluminoſus lamelloſus regularis.

Karſt. Mag. Helv. Naturk. 3. *p.* 204.

Hoffmann bergm. Journ. 1788. 2. *p.* 550.

nitens. β) duriuſculum, intus nitens undulatim ſchiſtoſum attactu pinguiuſculum, in fragmenta indeterminata diſſiliens.

Cronſt. miner. §. 124. 2. 3. 2. Schiſtus aluminoſus undulatus.

Karſt. Mag. Helv. Naturk. 3. *p.* 205.
Hoffm. bergm. Journ. 1788. 2. *p.* 501.

γ) pauliſper efferveſcens.
Waller. ſyſt. miner. 2. *p.* 35. *n.* 5. Alumen lapide cal-
careo bituminoſo nigro mineraliſatum.
Habitat in Sibiria (*montibus* Ural & Altai,) Ruſſia Nor-
wegia, Scania (*prope* Andrarum,) Oelandia, Weſtro-
gothia, Jemtia, Nericia, Sueciæ, Scotia, Anglia (*prope*
lithanthraces,) Vogeſis Helvetia, Auſtria (*prope* Creutz
& Thalern,) Bohemia (e. gr. *prope* Commotau,) Luſa-
tia *ſuperiori* (*prope* Muſkau,) Saxonia (*prope* Braun-
dorf, Belgern, Düben, Ceilerode,) Voigtlandia (*prope*
Reichenbach & Limbach,) Thuringia (*prope* Saalfeld,)
principatu Leodienſi (*prope* Mallieu,) β) *in* paroch
Nas Jemtiæ & *prope* Reichenbach, γ) *prope* Andrarum
in montibus ſtratariis integra ſtrata conſtituens, rarius
globi forma, quam communi, nigrum, pyritæ mica
aut glebulis inſperſis vix carens, pariter non raro ſ
mum ſub dio fatiſcendo, aut poſt uſtionem alumen pr
dens, alumen ferri expers difficilime exhibens.

turfæ. 10. A. ab acido vitrioli infuſo nullos vapores eructans, tur-
fæ immiſtum.
Waller. ſyſt. miner. 2. *p.* 33. Alumen turfa mineraliſatum.
Swab act. Stockh. 28 *p.* 37.
Habitat in Scania (*prope* Helſinburg) & Gallia (Beauvaiſis)

69. VITRIOLUM. Saporis auſteri.

Solutione aquoſa tum a natro
tum a lixivio cærulei Bero-
linenſis turbata.
Molliſſimum, ſub dio fatiſcens,
Ignis vi aquæ inſtar liqueſcens,
eaque perſeverante veram
metalli calcem relinquens.

magneſii. 1. V. roſeum, ſolutione aquoſa a natro infuſo ſedimen-
tum ochroleucum, a lixivio cærulei Berolinenſis vi-
ridulum dimittens.
v. Born ind. foſſ. 1. *p.* 51.
Habitat in Herrengrund *prope* Neoſolium Hungariæ.
vere ex magneſio & vitrioli acido conflatum?

niccoli. 2. V. viride, ſolutione aquoſa a natro infuſo ſedimentum ex albo viride dimittente.

Cronſt. miner. §. 123. 2. 4. Vitriolum ferrum & nickolum continens.

Habitat in Helſingiæ *fodinis* Suecicis *prope* Loos, *niccolo ochraceo inhærens, præter niccolum ferrum quoque continens.*

zinci. 3. V. album, a natro & lixivio cærulei Berolinenſis infuſo ſedimentum album dimittens, aqua qua ſolutum fuerat. exhalante in priſmata tetraedra utrinque pyramide terminata concreſcens. Fig. 9.

Syſt. nat. I. *p.* 166. *n.* 4. XII. 3. *p.* 104. *n.* 3. Vitriolum (album) zinci album dodecaedrum priſmaticum.

Brandt act. Upſ. 1735. *Waller. miner.* 167. *ſyſt. miner.* 2. *p.* 24. *n.* 3. *Cronſt. miner.* §. 122. 3. Vitriolum zinci.

Woltersd. miner. 21. Vitriolum nativum album zinco imprægnatum.

Habitat in Sueciæ, Hercyniæ, Bohemiæ, Auſtriæ, Hungariæ *fodinis zinci mineras exhibentibus, ex his farinæ inſtar efflorescens, interdum, ſtiriæ, rarius communi aut cryſtallina obvium, vix unquam ferri expers, hinc a gallarum tinctura inſtillata ſolutio ejus nigricat, uſu medico ophtalmico & emetico celebre.*

cupri. 4. V. cæruleum acre ſolutione aquoſa a natro volatili largiter infuſo ſuaviſſime cæruleſcente.

Syſt. nat. I. *p.* 166. *n.* 2. XII. 3. *p.* 104. *n.* 2. Vitriolum (cyprinum) cupri cæruleum dodecaedron.

Amœn. acad. I. *t.* 12. *f.* 24. *Cronſt. miner.* §. 122. 2. 1. 1. 2. Vitriolum veneris ſ. cyprinum.

Woltersd. miner. 21. Vitriolum nativum viride cupro imprægnatorum.

Waller. miner. 165. *ſyſt. miner.* 2. *p.* 20. *n.* 1. Vitriolum cupri cæruleum nativum.

hermaphroditum. β) ferreo cupreum cyaneum. *Syſt. nat.* XII. 3. *p.* 105. *n.* 4.

Waller. miner. 168. *n.* 1. *ſyſt. miner.* 2. *p.* 26. *n.* 4. a. Vitriolum mixtum cupro & ferro.

Cronſt. miner. §. 123. 2. 1. Vitriolum cuprum & ferrum continens.

cupratum. γ) V. zinceo-cupreum cæruleum. *Syſt. nat.* XII. 3. *p.* 105, *n.* 7. *Waller. ſyſt. miner.* 2. *p.* 26. *n.* 4. d.

Cronſt. miner. §. 123. 2. 4. Vitriolum cupro zinceum,

triplum. δ) V. ferreo-zinceo-cupreum cyaneum. *Syſt. nat.* XII. 3. *p.* 105. *n.* 5.
Waller. miner. 168. *n.* 2. *ſyſt. miner.* 2. *p.* 26. *n.* 4. b. Vitriolum cupro ferreo-zincinum.
Cronſt. miner. §. 123. 2. 2. Vitriolum & ferrum & zincum & cuprum continens.
Habitat crebrius ſolutum in aquis ſodinarum Irlandiæ (*prope* Wicklow,) Galliæ (*prope vallem* Leſcrinet,) Elbæ, Siciliæ (*prope* Gampiglieri & Petraglie,) Venetarum (*prope* Agorth,) Rhætiæ, Cypri, Hungariæ (*prope* Neoſolium & Schmœlniz,) Bohemiæ (*prope* Frankenau, Kuttenplan & Grosliz,) Saxoniæ (*prope* Altenberg,) Hercyniæ (*ad montem* Rammelsberg,) Haſſiæ (*prope* Silberg,) Sueciæ (*prope* Fahlun,) Norwegiæ & Sibiriæ *quam ſiccum, ex cupri mineris ſulphureis fatiſcentibus efflorescens, rariſſime,* e. gr. *in* Auſtria (*prope* Spiz,) Tranſilvania (*prope* Salatina) & Sibiria (*ad montem* Altai *in fodinis* Loctewskenſibus,) *nunquam non præter cuprum aut ferri aut zinci aut utriusque majorem minoremve copiam continens, cæruleo colore, dum fatiſcit, in flavidum abeunte, nauſeoſum, amarum, injecto ſolutioni aquoſæ ferro cuprum metallicum ut plurimum dimittens.*

ferri. 5. V. viride, ſolutione aquoſa a natro infuſo ſedimentum ochraceum dimittente, a gallarum tinctura nigricante, nudum.
Syſt. nat. I. *p.* 166. *n.* I. XII. 3. *p.* 104. *n.* I. Vitriolum (martis) ferri viride hexaedrum.
Cronſt. miner. §. 122. 2. I. I. I. Vitriolum martis ſimplex.
Woltersd. min. 21. Vitriolum nativum viride martiale.
Waller. miner. 166. *ſyſt. miner.* 2. *p.* 22. *n.* 2. Vitriolum ferri viride nativum.

ferratum. β) V. zinceo ferreum viride. *Syſt. nat. p.* 105. *n.* 6.
Cronſt. miner. §. 123. 2. 3.
Habitat tum ſolutum in aquis mineralibus & fodinarum non nullis, tum ſiccum rarius omni cupro liberum, interdum zinco inquinatum, facilius congeneribus & in pulverem quidem flaveſcentem fatiſcens, ſaporis adſtringentis, ſolutione aquoſa a gallarum infuſo in attramentum convertenda, a lixivio ſanguinis cæruleum Berolinenſe dimittente, in montibus ignivomis & ardentibus, *in* lithanthracum, *ferri, aliisque fodinis, ex quibus pyrites ſimilesque mineræ eruuntur, in regno* Neapolitano (*i. Veſuvio*

ſuvio & Solfatara,) Sicilia (*prope* Petraglie & Gampigliari,) Elba, Hetruria (e. gr. *in lacubus* Sienenſibus, Hungaria, Carniolia (*prope* Idriam,) Auſtria (*prope* Goettwig) *terris* rhenanis (e. gr. *bipontinis mercurii fodinis*,) Hercynia (*in monte* Rammelsberg,) Saxonia (*prope* Raſchau & Annaberg,) & Anglia (*prope* Whitehaven,) *farinæ, lanuginis aut cruſtæ albæ facie ex pyritis efflorescens, interdum ſtiriæ forma, aut glebarum, intus nonnunquam parallele fibroſarum & ſericeo nitore nitentium obvium, medicorum, pictorum, tinctorum aliorumque artificum uſu multiplici clarum.*

terreum. 6. V. ſolutione aquoſa a gallarum tinctura nigricante, terræ miſtum.

Wall. ſyſt. min. 2. *p.* 26. Vitriolum terra mineraliſatum.

Habitat paſſim in Italia e. gr. *in* Solfatara, *prope* Viterbo & Monte ſiaſcone, *in* Hungaria (*prope* Cremniz,) *terra utplurimum argillacea, flavum, rubrum, cæruleum, viride aut nigrum.*

atramentarium. 7. V. ſolutione aquoſa a gallarum tinctura nigricante, lapidi intermiſtum non ſchiſtoſo.

Syſt. nat. XII. 3. *p.* 106. *n.* 8. Vitriolum mineraliſatum lapide friabili.

Cartheuſ. miner. 45. Vitriolum lapide immiſtum.

Wolterds. min. 49. Vitriolum rude minerali alio miſtum.

Waller. miner. 170. *Baum. miner.* 2. *p.* 85. Lapis atramentarius.

Waller. ſyſt. miner. 2. *p.* 27. *n.* 6. Vitriolum lapide mineraliſatum.

Chalcitis. α) rubrum.
Sory. β) cinereum.
Melanteria. γ) nigrum.
Miſy. δ) flavum.

Habitat in Herciniæ *monte* Rammelsberg, *ex pyrite fatiſcente natum.*

ſchiſti. 8. V. ſolutione aquoſa a gallarum tinctura nigricante, ardeſiæ miſtum.

Habitat in Franconia, *prope* Creilsheim, *a pyrite inſperſo fatiſcente natum.*

turfæ. 9. V. ſolutione aquoſa a gallarum tinctura nigricante, turfæ immiſtum.

Cronſt. miner. §. 282. 2. 2. 1.

Habitat in Succiæ *palude* (*monti* argenteo orientali *vicina*,) *in* Boruſſia (*prope* monaſterium Olivæ,) Saxonia (*prope* Schmiedeberg) & Gallia (*terra* Beauvaiſis,) *nunquam cum flamma ardens.*

CLASSIS III.

PHLOGISTA.

70. TURFA — Ex fibris vegetabilium bitumine perfuſis contexta.

71. BITUMEN. Igni expoſitum odorem gravem ſpargens.

72. MELLITES. Cryſtallorum forma conſpicuus.

73. SUCCINUM. Igni expoſitum odorem ſuavem ſpirans, paulo difficilius liqueſcens.

74. AMBRA. Igni expoſitum odorem ſuavem ſpirans, facilime liqueſcens.

75. GRAPHITES. Solus difficilime exardeſcens.

76. SULPHUR. Cum flamma cærulea & vapore acido ſuffocante ardens.

III PHLOGISTA.

70. TURFA. Coloris utplurimum obſcuri, texturæ magis minuſve fibroſæ.
Cum vapore naribus ingrato oculiſque infeſto utplurimum ardens.
Ex radiculis aliiſque vegetabilium partibus minus magiſve alteratis & bitumine perfuſis compoſita.

ceſpitoſa. 1. T. albida levis facile cum flamma paucoque vapore celeriter in cineres converſa.

cricetorum. α) T.
muſcoſa. β) T.

Habitat potiſſimum in ericetis, terræ ſuperficiem tegens, aut ſolo humi ſtrato contecta, ſæpe congeneribus ſtratis amplioribus profundius ſitis, ex ericæ muſcorunque radicibus vix alteratis nata, hinc pallida, cana, aut ochroleuca, adeo levis, ut fruſtum 14 pollices longum, 6 latum, & 4 altum pondere non niſi 13-15 uncias æquet, ardendo oculis & naribus minus ingrata, at fugacem modo & leviſſimum calorem præbens, plurimoſque cineres relinquens.

foliata 2. T. texturæ ad lamelloſam accedentis.
Cronſt. miner. §. 291. 5. 2. 1. 2.
Habitat paſſim in paluſtribus, *in exiles colles aggregata, ex pluribus ſtratis inæqualibus chartæ foliorum ad inſtar ſeparabilibus conſtans, vegetabilibus, ex quibus componitur jam paulo magis alteratis, quam in ceſpitoſa.*

maritima. 3. T. tardius & cum fœtore oculis naribuſque infeſtiſſimo ardens.
Waller. ſyſt. miner. 1. *p.* 20. *n.* 6. b. Darry.
Habitat ad littora maris *depreſſiora, in vicinia quoque fontium* ſalſorum, *ſatis ponderoſa, coloris obſcuri, calorem, quam ceſpitoſa, longe majorem, ardendo ſubminiſtrans, at difficilius exardeſcens.*

paluſtris. 4. T. obſcuri coloris ad aërem conſolideſcens & citius cum vapore magis tolerabili exardeſcens.
Syſt. nat. I. *p.* 209. *n.* 2. XII. 3. *p.* 210. *n.* 6. Humus vegetabilis intertexto-fibroſa ſicco induranda.

Waller. miner. 11. Humus vegetabilis turfacea fibroſa.

Waller. ſyſt. miner. 1. *p.* 21. *n.* 7. Humus fibroſa combuſtibilis.

Cartheuſ. miner. 53. Humus denſa radicibus vix mutatis intertexta.

Habitat in omnis *fere* telluris paludibus *ceſpitoſa, cui ſæpius ſubjacet, magis ponderoſa, ita ut fruſtum* 14 *pollices longum*, 6 *latum*, & 4 *altum libram* 1¼ 1½ *pondere æquet, egregium fuci in multis terris pabulum v.* Degner *diſſ. de turfis. Ultraj.* 1729. 8. J. Beckmann *Beytr. z. Geſch. d. Erf. vol.* 2. *n.* 2.

Picea. 5. T. coloris obſcuri ad aërem conſolideſcens attactu pinguiuſcula bitumine largius perfuſa, hinc majore cum æſtu & fœtore ardens.

Cronſt. miner. §. 284. 2. 1. 1. & §. 291. 5. 2. 1. 1. Turfa ſolida aëre indureſcens.

Habitat tum in montium, *etiam altiorum & ex granite potiſſimum conflatorum* planitie, *tum in aquis* ſtagnantibus, *ex his*, *in* Belgio *præſertim, piſcaturæ ſpecie eruta* (Baggertorf,) *egregium, etiam in carbonem verſa, modo caute facta ſit uſtio, ignis pabulum, congeneribus magis ponderoſa, ita ut fruſtum*, 14 *pollices longum*, 6 *latum*, & 4 *altum*, *libras duas pondere æquet.*

71. BITUMEN. Facile cum flamma exardeſcens, ardendo odorem gravem ſpargens, pingue.

Naphtha. 1. B. fluidum albicans volatile maxime inflammabile.

Syſt. nat. I. *p.* 168. *n.* 1. XII. 3. *p.* 109. *n.* 1. Bitumen fluidum albicans.

Waller. miner. 192. *ſyſt. miner.* 2. *p.* 89. *n.* 1. *Carth. miner.* 47. Bitumen fluidiſſimum leviſſimum.

Woltersd. min. 24. Oleum montanum ignem attrahens, *Kæmpf. amœn. exot.* 273. *S. G. Gmelin it.* 3. *p.* 43. Naphtha albicans.

Pſiland. act. Pariſ. 1736. *Cronſt. miner.* §. 146. 3. 1. 1. Naphtha.

Habitat potiſſimum in Perſiæ *borealis peninſula* Abſcheron *prope* Baku, *odoris ſummopere penetrantis, adeo levis ut ipſi vini ſpiritui ſuperinnatat, adeo volatilis, ut exhalationibus ſuis atmoſphæram regionis*, *in qua occurrit*, *impleat*, *magnorum redituum fons largus.*

Petroleum. 2. B. liquidum tinctum.

Syſt. nat. I. *p.* 168. *n.* 2. XII. 3. *p.* 109. *n.* 2. Bitumen liquidiuſculum fuſco-rufeſcens.

Waller. miner. 194. *ſyſt. miner.* 2. *p.* 90. Bitumen fluidum craſſius.

Cartheuſ. miner. 47. Bitumen fluidum ſpiſſiuſculum.

Woltersd. min. 24. Oleum montanum luteum ſ. badium.

Cronſt. miner. §. 147. 2. Petroleum.

Arioſt. oleum montis Zibini. Mutin. 1698. 12.

Bouillet. mém. ſur l'huile de petrole de Gabian. Beliers 1752. 4.

Habitat nunc aquis innatans in Perſiæ (*ſ. antiquæ* Mediæ) *peninſulis* Boral & Abſcheron, *in* Sibiria (e. gr. *prope* Semenowa,) *in* Weſtphalia (*in lithantracum fodinis* Mindenſibus,) Bavaria (*prope* Tegernſee,) Helvetia (*prope* Bernam & Catonoy,) *in* Alſatia, Alvernia, Valconia, & (*prope* Gabian,) Occitania Galliæ, *in* Sicilia (*prope* Petraglie,) & *potiſſimum in Ducatibus* Parmenſi, Placentino & Mutinenſi, *præſertim ad montem* Chiaro & Zibio, Dacia, *potiſſimum prope* Herſchau, *nunc ex terris, potiſſimum calcareis, aut ferri mineris guttatim quaſi exſudans in* Suecia (*in parochia* Rættwick & *in monte* Oſmund & Moſſeberg,) Scotia (*prope* Edinum,) Marchia (*prope* Freyenwalde,) Auſtria (*prope* Gæming,) Wirtembergia (*prope* Boll,) Alſatia (*prope* Sulz,) *odoris minus ingrati, cum flamma cærulea ardens, vini ſpiritui innatans ad aërem ſpiſſeſcens et nigreſcens, alias flaveſcens, ruſeſcens, aut ſubfuſcum, rarius rude nigricans, membris contra frigus muniendis aliisque uſibus inſerviens.*

Maltha. 3. B. ſpiſſum nigrum, digitis tangentibus adhærens.

Syſt. nat. I. *p.* 168. *n.* 3. XII. 3. *p.* 110. *n.* 3. Bitumen tenax nigrum.

Waller. miner. 195. *ſyſt. miner.* 2. *p.* 92. *n.* 3. Bitumen ſegne craſſum nigrum.

Cronſt. miner. §. 148. Petroleum tenax.

Woltersd. miner. 24. Oleum montanum liquido tenax.

Habitat, utplurimum aquis innatans, in mari mortuo Palæſtinæ, *prope* Babyloniam, *in* Arabia (*prope portam* inferni,) *in* Perſia, Sinæ *lacubus inſignibus, Sibiria* (*prope* Semenowa & Jacuſchkina,) *in* Sueciæ *fodinis* (Dannemorenſi & Moos,) Anglia (*in* Colebroockdale,) Gallia (*prope* Clarimontum,) Sicilia (*prope* Leonforte, Bicorne, Girgenti, Polizzi, Canallote, Symmete,)

Helvetia (*prope* Orbe, *in balneo* Nydelbad & valle Leoben,) *in inſula* Barbados & *vicinis interdum ex terris calcariis exſtillans.*

elaſticum. 4. B. fuſcum ſolidum elaſticum.
Groſecke Bergbauk. I. *p.* 400.
la Mether. journ. de phyſ. 1787. *oct. p.* 311.
Habitat cum ſpato & galena in fodinis Anglicis *comitatus* Derbyenſis *reſinæ vegetabili, quam vocant elaſticum, ſimilimum, ut tamen vitrioli naphtha non ſolvatur.*

Mumia. 5. B. nigrum inodorum calore leni emolliendum.
Syſt. nat. XII. 3. *p.* 110. *n.* 4. Bitumen ſubfriabile piceum.
Haſſelq. it. 537. Mumia mineralis.
Kæmpfn. amoen. exot. faſc. 2. *p.* 430. & 3. *p.* 517. *Pharm. Wart.* 119. Mumia nativa perſica.
Habitat in Perſiæ *provincia* Duraab *in antro montis* Caucaſici Benna, *ab imperantibus clauſo & mirifice cuſtodita picem ſutoriam prima facie referens, inſipidum, prunis injectum petroleum olens, ut tamen aliquid ſulphurei odoris interſit, e naphtha indurata, ut videtur, natum, Perſis maximo pretio habitum, & addita tertia aut media ceræ parte vulnerarii loco crebro adhibitum.*

Aſphalthum. 6. B. opacum, coloris obſcuri igne facilime liqueſcens cum ſpiritu nitri fumante efferveſcens, nitens.
Syſt. nat. I. *p.* 163. *n.* 4. A. XII. 3. *p.* 110. *n.* 5. Bitumen friabile atrum.
Cartheuſ. miner. 48. Bitumen ſolidum fragile glabrum nitidum nigrum.
Waller. miner. 195. *ſyſt. miner.* 2. *p.* 93. *n.* 4. Bitumen ſolidum coagulatum friabile.
Woltersd. miner. 25. Pix montana dura fragilis nitida.
Cronſt. miner. §. 149. 3. 1. Petroleum induratum.
Habitat nunc in aliis phlogiſtis, aut terris calcariis, aut arenariis nidulans, aut venarum inſtar hæc percurrens, rarius ipſum ſtrata conſtituens, aut, quemadmodum in planitie (Turlane) *inſulæ* Trinitatis, *terræ ſuperficiem tegens, ſolis æſtivi ardore liqueſcens, alias in maritimis* nowæ Hiſpaniæ, *portu avana, ad fluvium* Wolga & *in promontorio ſeptentrionali* Caucaſi, *in* Norwegia (*prope* Kongsberg,) Suecia (*in* Oelandia & *prope* Dannemora,) *in* Dania, Anglia (*prope* Colebrookdale,) Gallia, Italia (*prope* Belluni,) Tranſilvania, Sileſia, (*in principatu*

S 4

Schweidniz,) Saxonia (*prope* Grosvoigtsberg, *circulo ſalico*,(*prope* Langenbogen,) Hercynia (*in monte* Iberg,) *comitatu* Marchienſi, Naſſovia (*prope* Kirchheim) & Palatinatu (*prope* Moersfeld & Spizenberg,) *ad candelam facilime liqueſcens, ceræ ſigillatoriæ, oleo ſolutum vernici nigræ inſerviens, nunc facilius nunc difficilius ardens rarius totum flamma conſumtum, quam ſcorias nitentes nigras fragiles relinquens, frequentius nigrum aut fuſcum, quam flavum, rarius in loco natali* e. gr. *in montibus* Carpathicis *ceræ inſtar molle, & ſine fumo aut fuligine ardens, aut* e. gr. *prope* Jaſſy *in* Moldavia, *manu calida jam emolliendum, aut* e. gr. *in principatu* Neocomenſi (*prope* Valtravers) *ejus tenacitatis, ut paſtæ inſtar cultro incidi queat.*

Ampelites. 7. B. nigrum opacum fragile intus terreum.

Syſt. nat. I. *p.* 168. *n.* 5. XII. 3. *p.* 110. *n.* 6. *Muſ. Teſſin.* 40. *n.* 1. *Schreb. lith.* 49. Bitumen humi turfæ.

Waller. miner. 197. *ſyſt. miner.* 2. *p.* 96. *n.* 5. Bitumen terra mineraliſatum ſolidum friabile.

Carth. miner. 48. Bitumen ſolidum terreſtre friabile.

Woltersd. miner. 25. Pix montana rudis ceſpitibus intertextis.

Cronſt. miner. §. 149. 3. 2. Pix montana impura.

Habitat in Sibiria & *paſſim per* Europam, e. gr. *in* Lotharingia, Helvetia, Suecia, *ſcorias multas plumbei coloris poſt uſtionem relinquens.*

Gagas. 8. B. compactum nigrum opacum tenax texturæ conchaceæ intus nitens, natans.

Syſt. nat. XII. 3. *p.* 111. *n.* 8. Bitumen ſolidum purum natans.

Wall. miner. 199. Bitumen duriſſimum lapideum purum.

Waller. ſyſt. miner. 2. *p.* 106. *n.* 7. Bitumen duriſſimum purum polituram admittens aquis innatans.

Woltersd. miner. 25. Pix montana dura compacta polituram admittens.

Cronſt. miner. §. 283. 3. 1. 1. 1. Vegetabile lithanthrace impregnatum.

Vogel. miner. 327. *Baum miner.* 1. *p.* 34. Gagas.

Habitat ſæpius ipſum ſtrata conſtituens, aut in lithanthrace nidulans, in montibus ſtratariis, ad pontum Euxinum, *ad fluvium* Syrjak *imperii* Ruſſici, *in* Scania (*prope* Boſerup,) Norwegia (*prope* Kongsberg, Islandia, Scotia,

Anglia (*potiſſimum in* Leiceſtria & Lancaſtria,) *in* Hiſpania (*prope* Valenciam, Arenas & Bellonico,) *in* Gallia, Sicilia (*prope* Petraglie, Paterno, compigliare, Bronte, Cataneam & *paſſim in vicinia* Ætnæ,) *in* Wirtembergia (*prope* Balingam & *thermas* Boltenſes) *in* Saxonia (*prope* Lipſiam) & Sileſia (*prope* Waldenburg & Tannenhauſen,) *interdum venis ſelenitæ, aut ſtriis lithanthracis vel argillæ fiſſilis varium, adeo tenax ut tornari poſſit, atque egregiam polituram admittens, frictione excalefactum potentius aliis phlogiſtis mineralibus ſolidis leviora corpora trahens, igne leni ebuliendo liqueſcens, igne etiam leni exagitatum tetrum odorem ſpargens, cineres canos ferriferos facile in vitrum abeuntes relinquens, variis operibus oleoque ſolutum vernici nigræ inſerviens.*

Lithanthrax. 9. B. opacum nigrum fragile cum flamma ardens, & ardendo fumum nigrum eructans.

Syſt. nat. I. *p.* 168. *n.* 6. XII. 3. *p.* 111. *n.* 7. *Muſ. Teſſin.* 42. *n.* 3. Bitumen ſchiſtoſum.

Waller. miner. 198. Bitumen lapide fiſſili mineraliſatum.

Wall. ſyſt. min. 2. *p.* 98. *n.* 6. Bitumen lapideum ſchiſto vel aliis terris mixtum & induratum.

Woltersd. miner. 25. Pix montana dura rudis fragilis.

Cronſt miner. §. 157. 2. Phlogiſton argilla mixtum.

Triewald. act. Stockh. 1740. &c. Stenkol.

Tilly ſur l'exploitation du charbon de terre. Paris 1758.

Breuling ſylva ſubterranea. Hal. 1693. 12.

Habitat in plurimis telluris, *etiam* Europæ, *potiſſimum* Angliæ *montibus ſtratariis, præſertim ex marmore aut ardeſia fabrefactis, aluminis vitriolique mineris, fontibus ſalſis & mineralibus, baſaltæ quoque columnari ſæpe vicinum, argilla fiſſili fatiſcente bitumine perfuſa non raro ſeſe prodens, ſtrata nunc ampliora, nunc tenuiora, plurima utplurimum ſibi incumbentia ſtratis aliis diſcreta conſtituens, horizonti nunc magis nunc minus parallela, ſæpius pyrite fœtum, hinc accenſum ſulphuris vaporem eructans, non raro iridis coloribus in ſuperficie ludens, rarius cubicum, texturæ nunc conchaceæ, nunc ſchiſtoſæ, interdum fatiſcens & inquinans, optimum fuci pabulum.*

Sevum. 10. B. album ſubfragile natans, facile cum flamma cærulea ardens.

Act. Stockh. 5 *art.* 1. 2. *Vogel mineralſ.* 343. Sevum minerale.

Habitat in Fennonia *in maritimis pago* Narko *vicinis*, & *ad* lacum Loja, *in amygdalorum oleo calido*, & *ſi quidem alcali acuatur ipſo vini ſpiritu ſolvendum, ambra levius celeriter cum multo fumo ardens, ſevum referens, an hujus regni.*

72. MELLITES. Mollis fragilis, pellucidus, vitreo nitore nitens, texturæ conchaceæ, ſubmelleus.

Pyramis tetraedra duplex, faciebus læviſſimis.

Werneri. 1. Mellites. *Karſt. Lesk. Mineralkab.* 1. *p.* 334.

Habitat in Saxonia *prope* Artern *in ſtratis ligni ſubterranei bituminoſi*, & *in* Helvetia, *in aſphalto nidulans; coloris inter melleum & hyacinthinum intermedii, in fragmenta indeterminata diſſiliens, cryſtallis minutis aggregatis vel ſparſis, diſtinctas interdum easque duplices pyramides tetraedras referentibus, an diſtincti generis?*

73. SUCCINUM. Leviuſculum flavum, intus nitens, texturæ conchaceæ, tenax, frictione aut igne excalefactum ſuaveolens, & corpora leviora reliquis phlogiſtis potentius trahens.

Igne agitatum ſal acidum ſiccum ſui generis præbens.

electricum. 1. Succinum.

Syſt. nat. I. *p.* 167. *n.* 2. Electrum diaphanum ſolidum.

Cartheuſ. miner. 48. Bitumen ſolidum durum nitidum ſuaveolens.

Wall. miner. 200. 201. Succinum pellucidum & opacum.

Copal *potius ad ſuccos vegetabiles pertinet.*

Waller. ſyſt. miner. 2. *p.* 108. Succinum durius europæum.
Cronſt. mineral. §. 145. Succinum.
Habitat frequentiſſimum ad littora maris Baltici, *præſertim* Boruſſiæ *finitima*, *rarius ad littora* maris glacialis, & *in media* terra contineate, e gr. Sibiria, Ruſſia *minori*, Boruſſia & Pomerania *utraque*, Marchia Brandenburgica, *Ducatu* Bremenſi (*prope* Oſterholz) & Hannoverano (*prope* Blumenau, Wiel & Gartow,) Saxonia (*prope* Schmiedeberg, Groſswig & Mehren,) Sileſia, Bohemia (e. gr. *prope* Scaliz,) Auſtria (*prope* Grienzing & Kirchbach,) Wirtembergia, Helvetia (*prope* Scaphuſium.) Gallia (e. gr. *prope* Bucharach,) Hiſpania, *potiſſimum in Aſturia, in Ducatu* Mutinenſi & Sicilia (e.gr. *prope* Cataneam,) *colore flavo nunc, in ochroleucum nunc in vireſcentem, nunc in fuſcum, rarius in nigricantem, frequentius in rubrum vergente, vinaceo, melleo, cereo, hyacinthino, nunc pellucidum, nunc diaphanum, nunc opacum, nunc diaphanum nubeculis veniſque opacis turbidum, polituram egregiam admittens, formæ utplurimum communis, rarius ſtalactiticæ, interdum ligno ſubterraneo adhærens, aut incluſum, ſæpe inſectis, creberrime ſilvaticis, incluſis, rarius plantarum veſtigiis impreſſis conſpicuum, medicorum uſui, ſuffimentis, vernicibus inſerviens, originis vegetabilis, diuturna tamen infra terram mora mirifice alteratum.*

74. AMBRA. Natans, inconſpicua, opaca, fragilis, ceræ inſtar mollis, inter dentes tenax, ut illis adhæreat.
Ambroſiaca, calore aquæ bulientis liqueſcens, facile exardeſcens cum flamma alba, & fumo cinereo, tota flamma conſumpta.

maritima. 1. AMBRA.
Cronſt. miner. §. 144. Ambra griſea.
ambroſiaca, α) Ambra griſea. *Syſt. nat.* XII. 3. *p.* 107. *n.* 1. *Rumpf muſ.* 262. *t.* 53. 54. *Pharm. Wirt.* 13.
Syſt. nat. I. *p.* 167. *n.* 1. Electrum opacum tenax.
Wolters l. miner. 25. Ambra colore griſeo optima.
Waller. miner. 204. *ſyſt. miner.* 2. *p.* 118. Ambra variegata.

Cartheuſ. miner. 49. Bitumen ſolidum molli opacum ſuaveolens.

vulgatior. β) Ambra unicolor fuſco-nigricans. *Syſt. nat.* XII. 3. *p.* 107. *n.* 2.
Waller. miner. 205. *ſyſt. miner.* 2. *p.* 119. *n.* 2. Ambra unicolor.
Woltersd. miner. 25. Ambra colore vario.
Habitat ad littora inſularum Moluccarum, Sumatræ, Madagaſcar, Æthiopiæ, Malabariæ, *rarior in* borealibus, *in fragmenta cruſtoſa ſecedens, texturæ granulatæ, oſſium ſepiæ fragmenta ſæpe continens, odore ſuo tineis infeſta, hominibus multis grata, in animi deliquiis nervorumque morbis, aliis arcendis efficax, vilior & minus pura unicolor alba, cinerea, nigra, fuſca, flaveſcens, melior ſtriis, punctis, venis, maculis flavis, nigris, albis marmoris inſtar variegata hæc pretioſa. An potius excrementum animale?*

75. GRAPHITES. Ex phlogiſto potiſſimum compoſitus, fixus & non niſi nitro intercedente inflammabilis. Niger, opacus, attactu pinguiuſculus, molliſſimus, ſubfragilis, inquinans, opacus, nitens, facile in fragmenta indeterminata diſſiliens.

Plumbago. 1. Gr. nitoris metalici, texturæ ſchiſtoſæ. *Scheele Act. Stockh.* 40. 1779. *p.* 238.
Syſt. nat. XII. 3. *p.* 121. *n.* 1. * β) Molybdænum tritura cæruleſcente impalpabile & ſubſquamoſum.
Muſ. Teſſin. 54. Zincum fuſco inquinans.
Woltersd. miner. 31. Ferrum nigricans ſplendens, unctuoſum inquinans.
Cronſt. miner. §. 153. 2. 2. 3. Sulphur ferro & ſtanno ſaturatum, textura chalybea micacea & granulata.
Wall. miner. 126. Mica pictoria nigra manus inquinans.
Waller. ſyſt. miner. 2. *p.* 249. *n.* 14. Ferrum corroſum volatile mineraliſatum, minera nigreſcente ſquamoſa pictoria magneti refractaria.
Habitat, utplurimum in argilla & granite nidulans, in Groelandia, Scotia (*prope* Dumphrey,) Anglia (*prope*

Barrodal,) Hiſpania (*prope* Cazella,) Pyrenæis (*prope* Iſſeaux,) *electoratu* Trevirenſi (*prope* Rheinbreidenbach,) Wirtembergia (*prope* Alpirſpach,) *ad* Ratisbonam, *in* Auſtria (*prope* Hafnerzell & Pſaffenmuth,) Hungaria (*prope* Schemniz,) Glazia (*prope* Reinerz,) Bohemia (*prope* Blatte & Stuncard,) Saxonia (*prope* Johanngeorgenſtadt, Sedisdorf, Ehrenfriedersdorf & Marienberg & *paſſim in* Suecia, *in fragmenta ſubtiliſſime granularia ſecedens, interdum ochra ferri intermiſta in fuſcum colorem vergens, ferri nunquam expers, ut creberrime* $\frac{1}{10}$ *ejus contineat, aëre fixo præterea prægnans, pennis ſcriptoriis, pileis tingendis, argillæ intermiſta catillis fuſoriis inſerviens.*

Carbo. 2. Gr. texturæ conchaceæ in fragmenta diſcoidea diſſiliens.
Wiedenm. bergm. Journ. 1789. 1. *p.* 609.
Klapr. chem. Ann. 1796. 1. *p.* 293.
v. Fichtel Karpath. p. 666.
Habitat in Hungaria (*prope* Schemniz, *in ſtratis tenuibus aut venis argillæ atræ induratæ innidulans, prope* Tſcherweniza *matricem opali venæ inſtar percurrens,*) Bedemontio, Gallia Voigtlandia (*prope* Liebſchwiz) & Norwegia (*prope* Kongsberg,) *igne candente* $\frac{9}{10}$ *ſui ponderis amittens, ſuperſtite parte ultra dimidium ex terra aluminari, ceterum ex ferri calce & terra ſilicea conflata.*

Fuligo. 3. G. intus aterrimus, colore nigerrimo inquinans.
Habel Schr. berl. Naturf. 10. *p.* 75. Natürlicher Ruſs.
Habitat in Naſſoviæ *fodinis lithanthracum prope* Duttweiler, *ſtrata tenua his interſerta & incumbentia conſtituens. An diſtincta hujus generis ſpecies?*

76. SULPHUR. Ex vitrioli acido & phlogiſto conflatum.

Leni igne cum tenacitate, colore hepatico odoreque ſibi proprio liqueſcens, accedente aëre in flammam cæruleam exardeſcens & vaporem ſuffocantem tincturas vegetabiles plurimas delentem eructans.

Cum metallis plurimis in igne colliqueſcens.

nativum. 1. S. nudum purum.
Syſt. nat. I. *p.* 169. *n.* 1. XII. 3. *p.* 113. *n.* 1. Pyrites nudus diaphanus.
Cronſt. miner. §. 150. 4. 1. Sulphur nativum.
Waller. miner. 205. *ſyſt. miner.* 2. *p.* 123. *n.* 1. Sulphur nativum purum flavum.
Dal. pharm. ic. 25. Sulphur nativum & vivum.
α) pulvereum.
Waller. ſyſt. miner. 2. *p.* 125. *n.* 1. e. Sulphur vivum flavum pulverulentum aquis effloreſcens.
Vandell. therm. 97. Sulphur thermarum cryſtallinum.
β) ſolidum.
a) purum.
*) formæ communis.
┌ opacum.
Waller. ſyſt. miner. 2. *p.* 124. *n.* 1. c. Sulphur vivum flavum gleboſum opacum.
┌┌ diaphanum.
Waller. ſyſt. miner. 2. *p.* 124. *n.* 1. b. Sulphur vivum flavum gleboſum pellucidum.
b) fibroſum vel capillare.
Waller. ſyſt. miner. 2. *p.* 124. *n.* 1. d. Sulphur vivum flavum capillare.
c) cryſtallinum.
Waller. ſyſt. miner. 2. *p.* 124. *n.* 1. a. Sulphur vivum flavum cryſtalliſatum.

b) impurum.

Wolt. min. 25. *Muſ. Teſſin.* 42. *n.* 3. Sulphur nudum luteum ignivomorum montium.

Waller. ſyſt. min. 2. *p.* 125. *n.*2. Sulphur nativum arſenicale rubrum.

Habitat α) *in* aquis ſulphureis & thermis *plurimis, his innatans, & in canalibus, quos tranſeunt, inque receptaculis, in quibus colliguntur obvium;* β a) *creberrime gypſo innidulans, in* India, Sibiria & Ruſſia Wolgæ *finitima, inſula* aquarum Lupiarum, Sicilia Elba, *inſulis* Æoliis Italia, Helvetia (*prope* Bex, Lotharingia, Germania (*prope* Wemſen, Lavenſtein & Duingen,) Gallicia (*prope* Widlicuca,) Islandia & Hungaria, β *b*) *ad* Heclam Islandiæ, Veſuvium Italiæ, *prope* Bex Helvetiæ β c) *tabularum, cuborum, priſmatum tetraedrorum longitudinaliter & ſubtiliter ſtriatorum, pyramidum ſimplicium triedrorum aut hexaedrorum, aut duplicium tetraedrarum in* Italia, *prope* Puteolos, Verucca & *in Ducatu* Urbino, *in* Hiſpania, Normannia, Sibiria, *promontorio* Caucaſi *ſeptentrionali prope thermas*, S. Catharinæ, β *b*) *arſenico inquinatum aut tinctum, ſandaracæ affine, in montium præſertim ignivomorum rimis & fiſſuris, in* Sina, *inſula* aquarum Lupiarum & Milo, *etiam in* Tiroli & Hungaria, *molle, texturæ nunc incurvo-lamelloſæ, nunc fibroſæ, nunc conchaceæ.*

terreum. 2. S. humo aut argillæ miſtum quam deflagrando relinquit, ab acido affuſo non fœtens.

Waller ſyſt. miner. 2. *p.* 125. *n.* 3. Sulphur nativum mixtionis peregrinæ, coloratum.

Habitat frequens in vicinia montium ignivomorum, *in locis, in quibus multis jam annis elapſis, excrementa animalia accumulabantur, ut quoque in aliis locis, e. gr. prope* Braciano *territorii* romani, *in lacubus* (Lagoni) Hetruriæ, *in* Pedemontio (*prope* Tortonam,) *in* Hiſpania, Alvernia, Germania (*prope* Magdeburg, Pirna & Schandau,) & Sileſia (*prope* Turnowiz,) *canum aut flavum, vel a bitumine, quo ſimul perfuſum eſt, fuſcum, nigricans, vel nigrum, flamma cærulea, qua ardet, prunis inſperſum, ſulphuris præſentiam facile & evidenter manifeſtans.*

hepaticum. 3. S. calce aut natro ſolutum, quod ſulphure per flammam conſumpto ſupereſt, ſponte vel acido adfuſo fœtens.

Habitat in vicinia montium ignivomorum, *alias in & inter montes calcarios, nunc forma ſoluta ſcaturiginis, aquæ, fontis, paludis vel lacus, quorum aqua ab infuſo acido cum fœtore turbatur, ab inſtillato plumbi aceto denigratur, argentum immerſum denigrat, ſæpius calet, frequens in imperio* Ruſſico, *in* Italia e. gr. *in lacubus* Hetruriæ, *inter* Romam & Neapolin, *in* Sicilia, *inſulis* Oceani *auſtralis, etiam in* Germania, *nunc forma ſolidiori, utplurimum ſedimentum ejuſmodi aquarum, etiam in ſalſataris.*

Pyrites. 4. S. ferro intime miſtum coloris aurichalcei nitoris metallici formæ communis.

Syſt. nat. I. *p.* 169. *n.* 4. XII. 3. *p.* 115. *n.* 5. Pyrites (ferri) mineraliſatus amorphus ſcintillans.

Cartheuſ. miner. 51. Sulphur ferro mixtum informe ponderoſum dilute flavum ſuperficie planiuſcula.

Waller. miner. 207. *ſyſt. miner.* 2. *p.* 126. *n.* 4. Sulphur ferro mineraliſatum minera difformi palide flava nitente.

Cronſt. miner. §. 151. 1. Sulphur marte ſaturatum.

Woltersd. miner. 31. Ferrum palide luteum ſplendens polymorphum.

Habitat per omnem terrarum orbem, *in montium & foſſilium generibus fere omnibus, tum prioris tum poſterioris fere ætatis, durum, at ſæpe cum nitoris metallici jactura fatiſcens, vagum, ſuperficiale, ſtillatitium, nidulatim, punctatim aliis immixtum, aut ipſum venas & ſtrata conſtituens, opacum, fragile, ignis vi facile liqueſcens, interdum magneti obtemperans, præter ſulphur & ferrum non raro quoque cuprum, arſenicum, aut aluminarem terram continens, in fragmenta indeterminata diſſiliens, texturæ rarius radiatæ, quam compactæ, ſupeſicie non nunquam ſpeculi inſtar nitente, aut veſtigiis cubicis vel hexaedro-pyramidalibus inæquali, aut celluloſa, ſulphuris & vitrioli ferri materies vulgatiſſima.*

figuratum. 5. S. ferro intime miſtum coloris aurichalcei nitoris metallici, formæ rotundatæ.

Syſt. nat. XII. 3. *p.* 114. *n.* 4. Pyrites mineraliſatus aggregatus figuratus.

Waller. miner. 208. *ſyſt. miner.* 2. *p.* 129. *n.* 5. Sulphur ferro mineraliſatum, minera globoſa concretum.

Habitat

Habitat in Germaniæ *fodinis frequens, etiam paſſim vagum, nunc globos majores minoresve, magis minusve perfectos, ſolitarios, aggregatos aut concretos, nunc hemiſphæria, nunc renes, nunc ova, nunc fructus, nunc fungos, nunc ſtalactitas, nunc conos, nunc fiſtulas, nunc pecten, nunc arbuſculam referens, veterum pyritæ ſimile.*

Marcaſita. 6. S. ferro intime miſtum coloris aurichalcei, nitoris metallici, forma cryſtallorum.

Syſt. nat. I. *p.* 169. *n.* 3. XII. 3. *p.* 113. *n.* 3. Pyrites (cryſtallinus) mineraliſatus cryſtalliſatus.

Waller. miner. 211. *ſyſt. miner.* 2. *p.* 131. *n.* 6. Sulphur ferro mineraliſatum forma cryſtallina.

Cronſt. miner. §. 151. 1. 1. 4. Sulphur marte ſaturatum cryſtalliſatum.

Cartheuſ. miner. 51. Sulphur ferro mixtum cryſtallinum ponderoſum dilute flavum.

α) pyramidale, pyramide.

a) triedra. *Syſt. nat.* XII 3. *p.* 114. *n.* 3. *α.*

a) perfecta.

b) marginibus truncatis. Fig. 37.

b) tetraedra duplici, *rarius ſolitaria aut vage, frequentius ſtellatim, in ſphæræ, columnæ, echini, criſtæ, tabulæ, turrium, arbuſculæ ſpeciem aut cellularum more aggregata.* Fig. 23.

Syſt. nat. XII. 3. *p.* 114. *n.* 3. *δ.*

a) perfecta.

b) angulis truncatis.

β) cubicum. Fig. 19.

Syſt. nat. XII. 3. *p.* 114. *n.* 3. *β.*

Geſn. Fig. 13. *f.* 2. *Muſ. Teſſin.* 42. *n.* 4.

a) faciebus convexis.

b) —— planis.

a) —— lævibus.

b) —— ſtriatis.

† ſtriis in ſingulis faciebus ejusdem directionis.

†† ſtriis alternarum facierum longitudinalibus & tranſverſis.

c) faciebus alternatim planis & convexis.

d) marginibus truncatis.

γ) priſmaticum, priſmatibus capillaribus frequentius ſtellatim, quam parallele aggregatis.

a) hexaedris.

b) octaedris.

δ) dodecaedricum.
a) dodecaedris perfectis. Fig. 29. 30.
Syſt. nat. XII. 3. *p.* 114. *n.* 3. η. ϑ.
Muſ. Teſſin. t. 12. *f.* 3.
b) angulis nonnullis truncatis. Fig. 21.
Syſt. nat. XII. 3. *p.* 114. *n.* 3. ι.
c) angulis pluribus truncatis. Fig. 18. 35.
Syſt. nat. XII. 3. *p.* 114. *n.* 3. κ. λ.
Habitat paſſim in Sueciæ, Angliæ, Germaniæ *fodinis*, *β) vulgatiſſimum*, *γ) rariſſimum*, *præter formam externam pyritæ ſimile.*

CLASSIS IV.

METALLA.

77. URANIUM.	Calce flava cum borace in vitrum fuſcum, cum oſſium acido in viride abeunte.
78. WOLFRAMUM.	Calce flava cum borace & oſſium acido in vitrum cæruleum abeunte.
79. MAGNESIA.	Calce nigra cum borace & oſſium acido in vitrum rubrum abeunte.
80. STIBIUM.	Calce cinerea in vitrum hyacinthinum abeunte.
81. ZINCUM.	Calce alba boracem aut oſſium acidum cum quibus igne colliquatur vix tingente.
82. MOLYBDÆNA.	Calce alba cum borace in vitrum violaceum, cum oſſium acido in viride abeunte.
83. STANNUM.	Calce alba cum borace & oſſium acido in vitrum lacteum abeunte.
84. COBALTUM.	Calce nigra cum borace & oſſium acido in vitrum cæruleum abeunte.
85. FERRUM.	Calce rubra cum borace in vitrum ex vireſcente fuſcum abeunte.
86. ARSENICUM.	Calce alba igne in fumum album allium redolentem abeunte.
87. CUPRUM.	Calce ſpadicea cum borace in vitrum viride abeunte.
88. NICCOLUM.	Calce viridi cum borace & oſſium acido in vitrum hyacinthinum abeunte.
89. WISMUTHUM.	Calce tandem rubra facile in vitrum ex luteo fuſcum ignis ſola vi abeunte.
90. ARGENTUM.	Ignis vi ſola non in calcem convertendum, ſulphure ſolvendum.
91. PLUMBUM.	Calce tandem rubra ignis vi ſola facile in vitrum flaveſcens abeunte.
92. HYDRARGYRUM.	Calce rubra volatili.
93. AURUM.	Ignis vi ſola non in calcem convertendum, non ſulphure quidem, ſed hepate ſulphuris ſolvendum.
94. PLATINA.	Ignis vi ſola non in calcem convertendum, nec ſulphure nec hepate ſulphuris ſolvendum.

METALLA.

77. URANIUM. ♅ Duriuſculum, fragile obſcure cinereum, tritura dilute fuſcum, parum nitens, ponderis ſpecifici = 6440 : 1000.

Igne difficilime liquescens, ex aqua forti & regis per lixivium ſanguinis colore ſpadiceo, per natrum colore flavo præcipitandum.

Calce cum natro & borace in vitrum fuſcum, cum oſſium acido in viride abeunte.

ochraceum. 1. U. flaveſcens terreum aqua forti totum ſolubile, ferri calci miſtum.

Klaproth chem. Annal. 1789. 2. *p.* 403. Uranites ochraceus luteus.

Habitat ſuperficiale in uranio ſulphureo, *flavedinis nunc dilutioris nunc ſaturatioris, ferri calce nunc magis, nunc minus prægnans, nunc pulverulentum, nunc paulo firmius cohærens.*

Chalcolithus. 2. U. duriuſculum diaphanum intus nitens texturæ lamelloſæ, aqua forti totum ſolubile.

Klaproth chem. Annal. 1789. 2. *p.* 403. Uranites ſpathoſus.
Werner Uebers. v. Cronſt. Miner. p. 217. Grüner Glimmer.
Werner bergm. Journ. 1789. 1. *p.* 376. *n.* 45. Chalcolit.
Habitat nunc ſuperficiale, nunc minoribus majoribusve particulis gneiſſo micaceo, granitæ aut mixto ex quarzo & uranite ſulphureo foſſili inſperſum in Saxonia (*prope* Eibenſtock & Johanngeorgenſtadt,) & *electoratu* Trevirenſi (*prope* Rheinbreidenbach,) *rarius cereum, quem cupri calce intermiſta virens, coloris piſtacini, pſittacini, ſmaragdini, pomacei interdum in argenteum vergentis, forma communi aut cryſtallorum exilium nitentium, cubos, priſmata, tabulas hexaedras aut octoedras frequentius tetraedras tum rectangulas, tum obliquangulas referentium.*

ſulphure-um. 3. U. duriuſculum ponderoſiſſimum atrum compactum intus nitens.

Klaproth chem. Ann. 1789. 2. *p.* 403. Uranites ſulphuratus.

Wern. Bergm. Journ. 1789. 1. *p.* 384. *n.* 141. Pechblende.

Habitat in Saxonia (*prope* Johanngeorgenſtadt,) Thuringia? (*prope* Saalfeld,) & ? Bohemia (*prope* Joachimſtal, *nunc integra tenuia ſtrata cum aliis ſtratis alterna conſtituens, nunc majoribus minoribusve partibus aliis inſperſum, ſolum ignis vi vix liqueſcens, cum oſſium tamen acido in vitrum viride abiens, acidis difficilius, optime adhuc aqua forti ſolvendum, cui vini colorem conciliat, nunc obſcure chalybeum plumbi plumbaginis nidulis, ſtriis, venis varium, nunc aterrimum, ut tamen paſſim rubedo intermicet, tritura pauliſper in vireſcentem colorem vergente, nitore lithanthracem referens.*

78. WOLFRAMUM. Fragile, obſcure fuſcum, intus chalybeum.

Acidis, difficilime facilius quam in reliquis, aqua forti ſolvendum.

Calce flava natro tum antiquorum, tum potiſſimum volatili, facile ſolvenda, utrumque in ſal medium convertente, cum multo oſſium acido ignis vi in vitrum cæruleum abeunte.

album. 1. W. ponderoſum lamelloſum maxime fragile album a ſuperinfuſa aqua forti calida flavicans.

Cronſt. miner. §. 208. Ferum calciforme terra quadam incognita intime miſtum.

Cronſt. act. Stockh. 12. *p.* 226. Jerſten.

Waller. Syſt. miner. 2. *p.* 253. *n.* 17. Ferrum lapidi vitreſcibili inhærens, minera alba vel rubente, facie lapidea ſine nitore in igne & magneti refractaria graviſſima.

Scheele & Bergmann nov. act. Stockh. 2. 1781. *p.* 89 & 95. Tungſten.

v. Born. ind. foſſ. 1. *p.* 89. Stannum ſpatoſum.
Karſt. Lesk. Mineralkab. 1. *p.* 575. Scheelium ochraceum album.
Klaproth Schr. berl. Naturf. 10. *p.* 319.
Habitat rarius in Suecia (*prope* Bipsberg,) Cornubia (*prope* Pengilly,) *frequentius in* Saxoniæ (*prope* Mariemberg & Altemberg) & Bohemiæ (*prope* Schoenfeld & Schlackenwalde) *ſtannifodinis, ex wolframi calce & terra calcaria conflatum accedente utplurimum ferri calce, cujus largiori portione interdum flaveſcit, neque aqua, neque acidis ſolubile, in igne crepitat, verum, ne violentiore quidem, liqueſcens; nunc forma communi, nunc pyramidis tetraëdræ duplicis.*

ſpuma lupi. 2. W. ponderoſiſſimum opacum coloris obſcuri tritura ex rubro obſcure fuſca ex wolframi, magneſiæ & ferri calce compoſitum.
Syſt. nat. I. *p.* 175. *n.* 4. Ferrum intractabile fibris planiuſculis centralibus nitentibus.
Syſt. nat. XII. 3. *p.* 122. *n.* 3. Molybdænum tritura rubra.
Woltersd. miner. 31. Ferrum nigrum radiatum jovem adulterans.
Cartheuſ. miner. 72. Ferrum mineraliſatum griſeo-nigrum ſplendens, lateribus planis ſtriatis.
Waller. miner. 268. Ferrum arſenico mineraliſatum minera nigra ſ. fuſca attritu rubente, cryſtalliſata planis nitidis ſplendente.
Waller. ſyſt. miner. 1. *p.* 330. Magneſia cryſtallina nigra fuſca vel rubra intrinſece ſtriata, attritu rubens.
Cronſt. miner. §. 117. Magneſia cum parva portione martis & jovis mixta.
Lehmann phyſic. chem. Schrift. p. 275. Wolfram.
d'Elhujar chem. Zerglied. de Wolframs Ueberſ. v. Gren. Hal. 1786. 8.
Karſt. Lesk. Mineralkab. 1. *p* 576. Scheelium ochraceum Spuma lupi.
Vogel mineralſ. p. 178. Spuma lupi.
Habitat rarius in Eſtremadura Hiſpaniæ, *frequentius in* Britania (*prope* Caetanos,) *in* Cornubiæ, Saxoniæ & Bohemiæ *ſtannifodinis; non raro ideo ſtanni calce inquinatum, coloris nigri, interdum in fuſceſcentem vergentis, ſuperficie nonnunquam variis coloribus ludente, nitens, texturæ recte lamelloſæ, rarius radiatæ, fragile, molle, in fragmenta indeterminata diſſiliens, in cruſtas incurvas,*

angulofas aut rectas ſecedens, forma ſæpe communi, interdum priſmatum hexaëdrorum compreſſorum pyramide tetraëdra terminatorum, rarius tabularum tetraëdrarum rectangularum, ſalis communis ſpiritu pro magna parte ſolvendum, eique colorem concilians.

79. MAGNESIA. Fragilis, macra, opaca, fuſca, intus cana, ferro difficilius igne liqueſcens, ponderis ſpecifici =6850:1000.

♂

Acidis plurimis ſolvenda, & affuſo ſanguinis lixivio colore ochroleuco ex his præcipitata.

Calce pro majore minorive phlogiſti ſuperſtitis portione nunc hoc nunc illo colore conſpicua, minima portione vitris addita hæc omni tinctu orbante, paulo majori violaceum, adhuc majore nigrum colorem affricante.

regulina. 1. M. inquinans nitoris intus metallici texturæ divergenti-radiatæ. *Lapeirouſe act. ac. Toloſ.* 1. *p.* 256.

Habitat in ferri fodinis Sem *vallis* pyrenææ Vic-daſſos, *reniformis, magneti non obtemperans, ſubmalleabilis; an nomine reguli magneſiæ revera digna?*

ochracea. 2. M. friabilis inconſpicua terrea.

Syſt. nat. XII. 3. *p.* 194. *n.* 9. Ochra magneſiæ pulverea nigra.

Cronſt. miner. §. 114. Magneſia friabilis terriformis.

Habitat in Anglia, Pyrenæis (*prope* Sem & Lapeirouſe,) Franconiæ *fodinis* Culmbacenſibus & Sibiriæ *montibus altaicis utplurimum nigra, rarius ſuperficialis rubra, an ex fatiſcentibus ſpeciebus durioribus nata?*

pictorum, 3. M. nigra friabilis natans, ſiccata, obiter contuſa & cum oleo unguinoſo ſubacta ad aërem liberum ſponte exardeſcens.

Wedegewood ap. Kirwan mineral. p. 352. *T. Bergm. chem. Annal* 1784. 2. *p.* 367. *Groſchke chem. Annal.* 1785. 2. *p.* 440. Wad.

Habitat in Angliæ *provincia* Derby *ſtrata ſatis ampla hinc inde conſtituens, potiſſimum prope* Portwai, *etiam? in ferrifodina ſylvæ* Thuringiacæ, v. g. *prope* Melis *ad montem* Glükſtein, *pingendis navibus inſerviens, præter magneſiam ex ferri calcem, plumbi & ferri calcem & barytidem continens.*

nivea. 4. M. alba igne fuſceſcens aut nigreſcens, mollis cum nitri acido efferveſcens & aërem hepaticum eructans.

α) texturæ radiatim fibroſæ.

Cronſt. §. 115. *B.* 1. *α.* Magneſia alba ſtricte ſic dicta.

β) texturæ incurvo-lamelloſæ.

Karſt. Lesk. Mineralkab. 2. *p.* 561. Magneſium ochraceum album.

Habitat majoribus aut minoribus portionibus aliis foſſilibus immerſa reniformis aut globoſa in Norwegia, Vermelandia Sueciæ & Tranſilvania, *nitoris intus vitrei, vix ſubopaca, leviuſcula, in fragmenta indeterminata diſſiliens, in granularia ſecedens, interdum ſpongioſa, cum borace liquata vitrum rubrum exhibens.*

rubra. 5. M. rubra, vitra colore rubro tingens

Cronſt. miner. §. 115. *B.* 1. *β.*

Habitat in Pedemontio & (*prope* Sem & Lapeirouſe) *in* Pyrenæis, *ſæpe ſphærica, ſtellatim fibroſa, ferri inops.*

vulgaris. 6. M. mollis inquinans coloris chalypei nitoris metallici.

Syſt. nat. I. *p.* 176. *n.* 8. Ferrum intractabile fuſcum inquinans, particulis micaceis ſtriatis.

Syſt. nat. XII. 3. *p.* 121. *n.* 2. Molybdænum tritura atra.

Cronſt. miner. §. 116 2. Magneſia parum martialis.

Baum. miner. 1. *p.* 269. Magneſia vitriariorum.

Woltersd. miner. 31. Ferrum nigricans ſplendens a centro radiatum.

Waller. miner. 269. Ferrum mineraliſatum, minera fuliginoſa inquinante, ſtriis ſparſis convergentibus.

Waller. ſyſt. miner. 1. *p.* 328. *n.* 2. Magneſia fulignoſa, particulis aceroſis nitens fragilis manus inquinans.

Cartheuſ. miner. 72. Ferrum mineraliſatum negricans obſolete ſplendens fibroſum.

Habitat in Suecia, (*ad montem* Skidberg & *prope* Tiwaden,) Anglia (*in collibus* Mendip & *provincia* Sommerſet,) Gallia (*in montibus* pyrenæis, *potiſſimum* Remié & Canigou, *prope* Siverac Roverniæ, Davejan Occitaniæ,) *inſula* Elba, Etruria (*prope* Chianciano di bagni,) Venetorum *fodinis prope* Schio, Hungaria (*prope* Felſobanya.) Sileſia (*prope* Conradswalde,) Carniolia (*prope* Paludnig & Lolling.) Hennebergia (*prope* Ilmenau,) Saxonia (*prope* Altemberg, Eibenſtock, Annaberg, Johanngeorgenſtadt, Camsdorf & Boeſenbrunn,) Thuringia (*prope* Langenwieſe & *in monte* Schneekopf,) *in* Hercynia (*præcipue prope* Ilefeld, *plurimo ferro inquinata prope* Wezlariam & Osnabrugum) *tam in montibus ſimplicioribus, quam in ſtratariis, frequentius barytidi, ferri mineris, jaſpidi, argillæ ferriferæ, quam ſpato aut gypſo immerſa, aëre vitali aut igne torta, aut vitrioli acido irrigata largam copiam exhibens, vitris & cruſtis vitreis aut tingendis, aut omni colore exuendis crebro adhibita, ferro nunquam carens, texturæ rarius compactæ, aut ſtellatim fibroſæ, aut minutim lamellatæ, quam ſparſe, ſtellatim vel faſciculate radiatæ, in fragmenta utplurimum indeterminata, rarius in feſtucas longa diſſiliens, crebrius in fragmenta granularia quam in cruſtas craſſas ſubincurvas, aut in bacillos ſecedens, ſæpe formæ communis, ut tamen etiam forma arbuſcularum, fructicum, fiſtularum, uvarum, tabularum minimarum retraedrarum, in pelliculas, columnas, faſciculos aggregatarum, aut priſmatum tetraedrorum, vel exilium acicularium hexaedrorum in faſciculos congeſtorum compareat.*

nigra. 7. M. mollis inquinans nigra vix nitens.

Cronſt. miner. §. 116. 2. α. *Waller. ſyſt. miner.* I. *p.* 329. *n.* 2. b. Magneſia fuliginoſa ſcoriacea.

Habitat in montibus Pyrenæis, Pedemontio, Helvetia, Wirtembergia, *electoratu* Trevirenſi, Thuringia) *præſertim prope* Koeniz,) Saxonia (*prope* Camsdorf.) & Luſatia (*prope* Sornendorf, & *in monte* Heideberg *prope* Rengersdorf,) *iisdem, quibus vulgaris, uſibus inſerviens, ferro quoque nunquam libera, interdum cupri pauxillum continens, nunc ſuperficialis, nunc minoribus majoribusve partibus aliis foſſilibus immerſa in fuſcum aut cæruleſcentem colorem vergens, aut ſuperficie variis coloribus picta comparens, rarius ſpongioſa, quam compacta, texturæ terreæ, planæ vel conchaceæ, ſuperficiei interdum veſti-*

giis ſphæricis impreſſis, formæ ſæpe communis, interdum celluloſæ, fructiculoſæ, pectinatæ, botryoidis aut renum.

Petracorius. 8. duriuſcula inquinans nigra intus nitens, igne rubeſcens.
Waller. ſyſt. miner. 1. *p.* 330. *n.* 3. Magneſia compacta nigra, particulis nitens, dura, inquinans.

Habitat in Galliæ *provincia* Perigord, *magnetem non ſequens, ponderoſa, cum borace liquata vitrum rubrum exhibens; an hujus generis?*

roſea. 9. M. roſea lamelloſa non inquinans igne facile & cum ſpuma liqueſcens.

v. Born ind. foſſ. 1. *p.* 31. Spatum ſcintillans carneum particulis impalpabilibus, auriferum.

v. Born ind. foſſ. 1. *p.* 68. Spatum ſclntillans roſeum.

v. Ruprecht phyſ. Arb. cintr. Fr. z. Wien. I. 1. *p.* 59.

Bindhein Schr. berl. Naturf. 5. *p.* 447.

Habitat in Tranſilvania (*prope* Nagyag) & Hungaria (*prope* Kapnik,) *auri matrix, in cruſtas tenues & incurvas ſecedens, forma communi, botryoide, aut lentium pyramidumve puſillarum, in ſphæras, uvas aut pyramides congeſtarum.*

80. STIBIUM. ♁ Fragile coloris argentei, texturæ radiatæ, ponderis ſpecifici = 6860 : 1000.

Igne non difficulter fluens, in calcem primo ex cinereo albam abiens, paulo violentiori in vitrum hyacinthinum, tandem in fumum album.

Aqua regis cum colore aureo ſolvendum & lixivio quoque cærulei Berolinenſis & aqua, forma calcis albæ, præcipitandum.

nativum. 1. St. ſtannei nitoris, ignis vi liqueſcendo nullum aut ſulphuris aut arſenici odorem ſpirans.

Syſt. nat. XII. 3. *p.* 123. *n.* 1. Stibium nudum argenticolorum.

Cronſt. miner. §. 231. *act. Stockh.* 1748. *p.* 99. Antimonium nativum ſeu Regulus antimonii nativus.

Cartheuſ. miner. 59. Antimonium nudum regulinum.

Waller. ſyſt. miner. 2. *p.* 196. *n.* 1. Antimonii regulus nativus.

Habitat in Sueciæ *fodinis* Sahlbergenſibus Carlsort & Lator, *formæ communis, texturæ lamelloſæ, lamellis rectis, cum hydrargyro facile ſubigendum, poſt liquationem ſolideſcendo facile in cryſtallos abiens.*

arſenicale. 2. St. ſtannei nitoris, ignis vim experiendo arſenicum olens.

Sage act. Pariſ. ann. 1782. *p.* 310.

Habitat in Delphinatu *prope* Allemont, *in* Hercynia *fodina* Abendroethe *prope* Andreaſberg, *nativo ſimile & arſenico parumper inquinatum, in fragmenta indeterminata diſſiliens, in granularia ſecedens.*

rubrum. 3. St. obſcure rubrum fibroſum candeſcendo ſulphuris & arſenici vapores eructans, parum nitens.

Syſt. nat. I. *p.* 172. *n.* 5. XII. 3. *p.* 124. *n.* 4. *Muſ. Teſſin.* 50. Stibium mineraliſatum fibroſum rubrum.

Waller. miner. 239. *ſyſt. miner.* 2. *p.* 199. *n.* 6. Antimonium ſulphure & arſenico mineraliſatum, rubrum.

Cronſt. miner. §. 233. Antimonium auripigmento mineraliſatum.
Vogel Mineralſ. 496. Minera antimonii rubra.
Habitat rarius in Hungaria, Saxonia.

argentigo. 4. St. fibroſum, ignis vi exagitatum argenti granulum relinquens & ſulphuris vaporem emittens.
Syſt. nat. XII. 3. *p.* 194. *n.* 14. Ochra argenti germinans nigra.
Cartheuſ. miner. 76. Argentum fibris rectis tenuiſſimis friabilibus nigricantibus.
Cronſt. miner. §. 172. 2. 1. Minera argenti antimonialis capillaris.
Waller. miner. 291. Argentum ſulphure, arſenico & antimonio mineraliſatum.
Waller. ſyſt. miner. 2. *p.* 339. *n.* 9. Argentum ſulphure, arſenico & antimonio mineraliſatum, minera plumoſa vel radiata.
Habitat ut plurimum quartzo inhærens in Delphinatu (*prope* Allemont,) Sicilia (*prope* Novara & Roccalumiara,) *in* Tranſilvania (*prope* Nagyag,) *in* Hungaria (*prope* Rapnik, Felſobanya, Cremniz, Hodritſch, Malazka, Schemniz, Kœnigsberg,) *in* Bohemia (*prope* Joachimsthal,) *in* Hennebergia (*prope* Ilmenau) & Saxonia (*prope* Braeunsdorf & Freyberg,) *nunquam ultra* $\frac{7}{200}$ *argenti continens, utplurimum pauperrima, nunc arſenici pauxillum habens, nunc carens, creberrime ex atro cæruleum, interdum cinereum aut niveum, fibris capillaribus, lanæ inſtar mollibus rectis aut flexuoſis, liberis, aut quodammodo cohærentibus, ſparſis, interdum parallelis aut ſtellatim diſpoſitis.*

Stibigo. 5. St. fibroſum candeſcendo ſulphuris vaporem eructans, violentiore paulo igne totum avolans, parum nitens.
Syſt. nat. I. *p.* 172. Antimonium fibris capillaribus ſparſis.
Syſt. nat. XII. 3. *p.* 194. *n.* 13. Ochra ſtibii germinans rubra.
Woltersd. miner. 27. Antimonium rubrum plumoſum.
Waller. miner. 238. Antimoninm magna copia ſulphuris mineraliſatum, lanæ inſtar fibris capillaribus ſeparatis.
Waller. ſyſt. miner. 2. *p.* 197. *n.* 3. Antimonium ſulphure mineraliſatum, lanæ inſtar, fibris capillaribus ſeparatis.
Vogel mineralſ. 496. Flores antimonii.
Habitat in Hercynia (*prope* Andreäberg, Saxonia, Hennebergia, Bohemia, Hungaria, Tranſilvania, Sicilia,

Hetruria, Delphinatu & Alvernia, *interdum ſuperficialis, fibris mollibus capillaribus flexilibus, liberis aut in bacilos, faſciculos, hemiſphæria vel ſtellatim congeſtis, creberrime cinereis, interdum nigris, hepaticis obſcure rubris, violaceis, vireſcentibus, dilute flavis, flavicantibus aut variegatis, rarius albis.*

Vulgare. 6. St. coloris chalybei, nitoris metallici, ponderoſum candeſcendo ſulphuris odorem ſpirans, tandem totum forma fumi albi avolans.

α) texturæ compactæ.

Waller. ſyſt. miner. 2. *p.* 198. *n.* 4. Antimonium ſulphure mineraliſatum minera difformi ſolida livido-fuſca.

Cronſt. miner. §. 232. 2. 1. 3.

β) texturæ lamelloſæ.

Waller. ſyſt. miner. 2. *p.* 197. *n.* 2. d. Galena antimonii.

γ) texturæ radiatæ.

Syſt. nat. I. *p.* 172. *n.* 2. Stibium ſtriatum.

Syſt. nat. XII. 3. *p.* 123. *n.* 3. Stibium mineraliſatum fibroſum plumbicolorum.

Woltersd. miner. 27. Antimonium albo-griſeum ſplendens ſtriatum.

Cronſt. miner. §. 232. 2. 1. 1. 2. *Waller. miner.* 238. Antimonium ſulphure mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 196. *n.* 2. Antimonium ſulphure mineraliſatum ſtriatum, colore griſeo-cæruleſcente.

Dal. pharmac. 38. Antimonium.

a) radiis parallelis.

Waller. ſyſt. miner. 2. *p.* 197. *n.* 2. a.

b) radiis ſparſis.

Syſt. nat. I. *p.* 172. *n.* 4. *Muſ. Teſſin.* 50. Stibium fibris intercuſſantibus ſpatum.

Waller. ſyſt. miner. 2. *p.* 197. *n.* 2. b.

c) radiis faſciculatis.

d) radiis ſtellatis.

Syſt. nat. XII. 3. *p.* 123. *n.* 3. γ. *Muſ. Teſſin.* 52. *n.* 6. Stibium fibris concentricis radiantibus.

Waller. ſyſt. miner. 2. *p.* 197. *n.* 2. c.

δ) texturæ fibroſæ.

a) formæ communis.

b) fiſtuloſum.

c) forma priſmatum hexaedrorum utplurimum acicularium interdum faſciculatorum.

Syſt. nat. I. *p.* 172. *n.* 3. XII. 3. *p.* 123. *n.* 2. Stibium (cryſtallinum) cryſtalliſatum.

Cronſt. miner. §. 232. 2. 1. 4. *Waller. miner.* 239. *ſyſt. miner.* 2. *p.* 198. *n.* 5. Antimonium ſulphure mineraliſatum cryſtalliſatum.

Habitat rarius ſuperficiale, quam partibus minoribus majoribusve terris calcariis, argilloſis, fluori, quartzo inſperſum, rarius in bacillos, utplurimum in grana ſecedens, frequens in Hungaria, *potiſſimum ſuperiori*, Temeſia (*prope* Moldawa,) Tranſilvania (*prope* Vayda Hunyad, Staniza & Nagyag,) *ad montes* Sudetos, *in* Bohemia (*prope* Przibram,) *in* Carinthia (*prope* Siſiiz & Lemberg,) *in* Stiria (*prope* Schladming,) *in* Rhætia, Italia *media* (*prope* Pereta & Silvena,) Sicilia (*ad montem* Niſo,) Sardinia, Corſica, Gallia (*prope* Rumpon) *ejusque provinciis* Occitania (*prope* Villefort,) Alvernia (*prope* Lubillac,) Borbonienſi, Lemovicenſi, Andegavenſi, Pictavienſi & Britannia, *in* Hiſpania, Suecia, (*fodina* Weſtmanniæ & Stripas,) Norwegia (*fodina* Narverud,) Saxonia (*prope* Bræunsdorf, Freyberg, Johanngeorgenſtadt, Camsdorf, Geyer & Voigtsberg,) Thuringia (*prope* Stollberg) & Hercynia (*prope* Andreasberg,) *α*) *in* Hungaria (*prope* Magürca) & Saxonia (*prope* Bræunsdorf,) *β*) *in* Saxonia (*prope* Bræunsdorf,) Tranſilvania (*prope* Nagyag,) & Sabaudiæ *fodinis* Roſſi, *δ*) *in* Lapponia, b) *in* Hungaria (*prope* Kœnigsberg,) c) *in* Saxonia (*prope* Bræunsdorf) & Hungaria (*prope* Cremniz, Felſolangos & *in* Baronia Duros, *in fodina* Temeſienſi *prope* Dognaſca *articulatis*,) *γ* a) *vulgatiſſimum, chemicorum, alchemicorum, metallorum reliquorum eſſentiam aurique ſemina in eo quærentium, medicorum, œconomorum, artificum typos fundentium uſibus inſerviens.*

argentiferum. 7. St. Coloris chalybei nitoris metallici, tritura aldida.
Klaproth chem. Annal. 1790. 1. *p.* 294.

α) formæ communis.
v. Born. ind. foſſ. 1. *p.* 78. 2. *p.* 116. Argentum album, arſenico & cupro ſulphurato mineraliſatum, tritura albida & argentum album amorphum ſolidum.

β) forma cryſtallorum polyedrarum.
v. Born. ind. foſſ. 1. *p.* 78. Argentum album cryſtallis polyedris.

Habitat in Hungaria *prope* Cremniz, *in* 100 *partibus ultra* 34 *ſtibii metallici, ultra* 31 *cupri, pene* 15 *argenti*, $11\frac{1}{2}$ *ſulphuris, & ultra* 3 *ferri continens.*

Phoſphoratum. 8. St. aciculis ſparſis lamelloſis longitudinaliter ſtriatis ſine fumo notabili incandeſcentibus.

C. a. Raſumowsky chem. Annal. 1786. 1. *p.* 291.

Habitat in Sabaudiæ *valle* Servoz, *foveis ſtibii vulgaris lamelloſi innidulans, molle, coram tubo ferruminatorio in carbone facile liqueſcens, & in ſcoriam friabilem granis ſtannei coloris innidulantibus conſpicuam abiens, frequentius flavum, aureum, vel album, quam nigrum & metallice nitens.*

muriaticum. 9. St. niveum matris perlarum inſtar nitens parallele radiatum forma tabularum exilium erectarum tetraëdrarum.

Roeſſler, Hacquet, & Klaproth chem. Annal. 1787. 1. *p.* 334. 1788. 1. *p.* 523. & 1789. 1. *p.* 9.

Schreiber bergm. Journ. 1788. 1. *p.* 11. & 1789. 1. *p.* 398.

Ferber nov. act. Petrop. 3. *p.* 271.

Habitat in Bohemia (*prope* Przibram, *galenæ,*) Saxonia (*prope* Braeunsdorf, *congeneribus inſidens,*) Delphinatu (*in montibus* Chalanches,) & Hungaria (*prope* Felſobanya,) *aqua regis totum ſolvendum, majoribus fruſtulis igni expoſitum decrepitans, in pulverem contuſum facile igne liqueſcens & totum ſpecie fumi albi avolans, cum borace colliquatum metalli granula exhibens.*

81\. **ZINCUM.** Submalleabile, ſubſonorum, ex
Z Z cæruleſcente album, texturæ radiatæ aut fibroſæ, nitoris conſtantioris, ponderis ſpecifici = 6953 : 1000.

Igne non difficulter liqueſcens, in flammam exardeſcendo coruſcantem vireſcentem & floccos niveos eructando, calcem relinquens, dum calet, flavam, poſt albam, vitris nullum colorem africantem, cuprum flavo tingens.

Acidis omnibus ſolvendum, acrimoniam eorum delens, colorem nullum concilians.

ochraceum. 1. Z. pulverulentum album inconſpicuum.
Syſt. nat. XII. 3. *p.* 193. Ochra zinci albida.
Waller. ſyſt. miner. 2. *p.* 222. *n.* 8. Zincum pulverulentum terreſtre.
Grill & Engeſtrom act. Stokh. 36. *p.* 77. 78.
Habitat in Sina, Sueciæ *monte argenteo occidentali*, & Carinthiæ *fodinis* Bleybergenſibus, *via humida cum acidis efferveſcens & fere totum ſolubile.*

calciforme. 2. Z. coagmentatum molliſſimum opacum album inconſpicuum.
Cronſt. miner. §. 226. 1. 1. 1. 1. Minera zinci calciformis pura indurata.
Habitat in Sibiria (*fodina* Tſchagirenſi *montium altaicorum*,) Suecia (*in monte* Stollberg,) Sileſia (*prope* Beuthen,) Bohemia (*prope* Commotau,) Hungaria (*prope* Cremniz,) Auſtria (*ad montem* Schwarzenberg, & *prope* Annaberg & Tirniz,) *in* Carinthia (*ad montem* Koenisberg,) Carniolia (*prope* Treviſo,) Venetorum *terris* (*prope* Schio,) Anglia (*prope* Wirkesworth,) *intus terreum aut minutim lamelloſum, rarius compactum, acidis facile cum efferveſcentia & fere totum ſolubile, ſæpius in cruſtas ſecedens, inter-*

interdum in flavum aut cinereum colorem vergens; nonnunquam celluloſum noduloſum, fruticuloſum, fiſtuloſum, aut ſtiriæ forma conſpicuum, a metalli alieni labe ſatis purum.

Vitreum. 3. Z. durum pellucidum nitoris vitrei.

Waller. Syſt. miner. 2. *p.* 215. *n.* 2. Zincum ſulphure mineraliſatum, minera albeſcente vel griſea, facie vero & textura vitrea.

Habitat in Danuria, Anglia, Namurcenſi *comitatu*, Carinthia.

ſiliceum. 4. Z. album fibroſum in cruſtas ſecedens cum acidis in gelatinæ ſpeciem abiens.

Klaproth 1788. 1. *p.* 291.

Habitat in Scotia (Wanlok Head.) Brisgovia *plumbo ſpatoſo. forma u plurimum hemiſphærica inſidens, tertiam partem terræ ſiliceæ, metallici præter zincum nihil continens.*

ſpatoſum. 5. Z. lamelloſum diaphanum igni expoſitum pauliſper decrepitans, neque unquam ſulphur eructans, formæ communis aut globuloſæ.

Habitat in Angliæ (Nottingham,) Auſtriæ (*ad montem* Schwarzenberg & *prope* Tirniz,) Carinthiæ (*prope* Bleyberg,) Brisgoviæ, (*prope* Freyburg) *fodinis utplurimum album, interdum ferri calce accedente colore dilute viridi, viridi, flavo, flaveſcente, rufeſcente, ſpadiceo, luteo, nigricante cinctum, terram quoque ſiliceam ſemper continens, nonnunquam adeo copioſam, ut chalybem ſcintillet.*

cryſtallitum. 6. Z. lamelloſum diaphanum igni expoſitum pauliſper, decrepitans neque ſulphur eructans, formæ cryſtallinæ.

Syſt. nat. XII. 3. *p.* 125. *n.* 1. *Muſ. Teſſin.* 52. *n.* 1. Zincum cryſtalliſatum.

Cronſt. miner. §. 226. 1. 1. 1. 2. Minera zinci calciformis pura indurata druſica.

Habitat in Anglia (*præſertim provinciis* Nottingham & Sommerſet,) Polonia, Carinthia (*prope* Bleyberg,) Auſtria (*prope* Tirniz,) Brisgovia (*prope* Freyburg,) *Ducatu* Weſtphaliæ, & *prope* Aquiſgranum, *ſpatoſo ſatis ſimile, at forma tabularum rectangularum tetraedrarum in druſas, globi vel uvæ ſpeciem aggregatarum, aut cuborum exilium perfectorum faciebus nunc planis, nunc convexis gaudentium, aut parallelipipedorum, aut pyramidum trig-*

drarum vel hexaedrarum, ſæpius ſimplicium quam duplicium, intus crebro cavarum, rariſſime priſmatum hexaedrorum in pyramidem hexaedram terminatorum, aut acicularum capillarium interdum flabelli inſtar diſpoſitarum conſpicuum.

Calaminaris. 7. Z. molle tinctum formæ communis, texturæ terræ aqua forti totum ſolubile opacum inconſpicuum.

Syſt. nat. I. *p.* 174. *n.* 4. Zincum terreſtre.

Syſt. nat. XII. 3. *p.* 126. *n.* 5. Zincum ſubterreum lapideſcens.

Waller. miner. 247. Zinci minera terrea, colore flaveſcente ſ. fuſco.

Waller. ſyſt. miner. 2. *p.* 216. *n.* 3. Zincum terreſtre vel lapideum, colore flaveſcente vel fuſco.

Woltersd. miner. 27. Zincum argillofum ponderoſum, colore vario.

Cronſt. miner. §. 226. 1. 2. Minera zinci calciformis impura.

Habitat in nova Hiſpania (*inter* Chilalpan & Troizlan,) Sibiria (*prope* Nertſchinsk,) Polonia (*prope* Olkuſch,) Sileſia (*prope* Tarnowiz,) Saxonia (*prope* Hohenham,) Bohemia (*prope* Tſcheren, Bibshauſen & Plan,) Auſtria (*ad montem* Schwartzenberg, *prope* Annaberg & Tirniz,) Carinthia *prope* Bleyberg, Bleyburg & *ad montem* Jauken,) Carniolia (*prope* Treviſo,) *comitatu* Marchiæ (*prope* Iſerloh,) *Ducatu* Weſtphaliæ (*præſertim prope* Brillon,) & Juliacenſi (*prope* Greſnich,) *terra* Leodienſi, Belgii *provinciis* Nemurcenſi & Limburcenſi, Galliæ Andegavenſi & Saumurois, *etiam* Sevennis & Anglia (*in collibus* Meadip, *in provinciis* Derby, Flint, Sommerſet & Nottingham,) *parando aurichalco vulgo inſerviens, præter ferri calcem, qua rarius viridi, frequentius ex flaveſcente cinereo, ſtramineo, iſabellino, aurantio, ruſeſcente rubro, creberrime ex rubro fuſco colore tingitur, plumbi calce, galena, ſpato (quo præſente potiſſimum efferveſcit) inquinatum, in granula ſecedens, argillæ ferriferæ ut plurimum innidulans, rarius texturæ feſtucariæ.*

Pſeudogalena. Blende. 8. Z. nitoris ſemimetallici texturæ lamelloſæ igni injectum ſulphuris flammam & vaporem eructans, formæ communis.

Cronſt. miner. §. 228. 2. 1. 2. 3. Zincum calciforme cum ferro ſulphuratum.

Funck act. Stockh. 1744. *p.* 58. Sterile nigrum.

Vogel miner. 167. *Baum. miner.* 1. *p.* 271. *Pott. obſerv.* 2. *p.* 105. *Scopol. ann. hiſtor. natur.* 5. *p.* 53. Pſeudogalena.

α) tritura alba.

Sterile. β) tritura cinerea.

Syſt. nat. I. *p.* 174. *n.* 2. Zincum micaceum ſubteſſellatum nigrum.

Syſt. nat. XII. 3. *p.* 126. *n.* 6. Zincum ſemiteſſellatum atrum.

Waller. miner. 248. Zincum ſulphure, arſenico & ferro mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 218. *n.* 5. Zincum ſulphure & ferro mineraliſatum, minera ſquamulis vel teſſulis micante, obſcura.

Cartheuſ. miner. 61. Zincum mineraliſatum ſquamoſum nigricans nitens.

γ) tritura flava.

rapax. δ) tritura rubra.

Syſt. nat. I. *p.* 174. *n.* 3. XII. 3. *p.* 127. *n.* 8. Zincum micaceum rubicundum tritura rufa.

Waller. miner. 250. Zincum ſulphure arſenico & ferro mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 220. *n.* 6. Zincum ſulphure & ferro mineraliſatum, minera aut rubente aut pulverem rubicundum exhibente.

Cartheuſ. miner. 61. Zincum mineraliſatum ſquamoſum rubeſcens nitens.

a) purum.

b) cupro fulvo ſubtiliter inſperſo inquinatum, hinc metallice nitens.

Syſt. nat. XII. 3. *p.* 125. *n.* 3. Zincum (Swabii) mineraliſatum compactum, atomis albidis.

Cronſt. miner. §. 227. 2. 1. 1. 2. Zincum forma metallica ſulphuratum.

Waller. ſyſt. miner. 2. *p.* 218. *n.* 4. b. Zincum ſulphure & ferro mineraliſatum colore obſcure ferreo, particulis micantibus.

c) galenæ miculis interſperſis. metallice nitens.

a) *Syſt. nat.* I. *p.* 174. *n.* 1. Zincum canum galena intertextum.

Syſt. nat. XII. 3. *p.* 125. *n.* 2. Zincum (mineraliſatum) mineraliſatum compactum ſubſquamoſum.

Waller. miner. 247. Zincum ſulphure plumbo ſ. ferro mineraliſatum obſcurum, particulis micantibus.

Waller. ſyſt. miner. 2. *p.* 218. *n.* 4. a. Minera zinci minimis ſquamulis nitens.

Cronſt. miner. §. 228. 2. 3.

b) *Muſ. Teſſin.* 54. *n.* 3. Zincum lamelloſo-imbricatum metallicum.
Cronſt. miner. §. 227. 2. 1. 1. 1.
c) *Syſt. nat.* XII. 3. *p.* 26. *n.* 4. Zincum (ſtibiatum) mineraliſatum fibroſum.
Muſ. Teſſin. 54. *n.* 4. Zincum ſtibiatum.
*) *Muſ. Teſſin.* 54. *n.* 2. Zincum lamellis decuſſatis, interſtitiis ferreo-ochreis.
d) argento ſubtilliſſime inſperſo dives.
Syſt. nat. XII. 3. *p.* 150. *n.* 8. Argentum (zincoſum) mineraliſatum zinco ſterilo.
Cronſt. miner. §. 174. 7. Argentum zinco ſulphurato mineraliſatum.
Waller. ſyſt. miner. 2. *p.* 310. *n.* 11. Argentum zinco ſulphurato mineraliſatum, minera nigra vel nigreſcente nitida.
e) argentum aurumque ſubtiliſſime inſperſa continens.
Syſt. nat. XII. 3. *p.* 152. *n.* 2. γ. Aurum mineraliſatum pyrite in zinco ſterilo.
Cronſt. miner. §. 165. 2. 1. 3. Aurum ſulphure mineraliſatum medicante zinco aut ferro aut argento.
Waller. ſyſt. miner. 2. *p.* 357. *n.* 4. Aurum ſulphure, zinco & ferro mineraliſatum, minera pſeudogalenica.
Habitat frequens in Sibiriæ, Norwegiæ, Sueciæ, Scotiæ, Angliæ, Germaniæ, Hungariæ, Sabaudiæ *fodinis*, d) *in* Sabaudiæ *(prope* Sourde,) Hungariæ (*prope* Schemniz,) Bohemiæ (*prope* Ratieborziz & Joachimsthal,) & Saxoniæ (*prope* Freyberg & Schneeberg,) e) *in* Transilvaniæ (*prope* Cajoneil, Boiza & Solatna) & Hungariæ (*prope* Schemniz) *fodinis in grana ſecedens, utplurimum quoque partem terræ aluminaris & ſiliceæ continens, rarius formæ globoſæ, aut texturæ in radiatam vergentis aut intus ſpeculi inſtar nitens, interdum in tenebris cultri aut calami apice tentatum ſcintillas lucidas emittens, creberrime fuſcum aut nigrum, at multis quoque flavi rubrique coloris varietatibus conſpicuum, rarius viride, ochroleucum vel album, ſæpe opacum, interdum ſubopacum, rarius diaphanum, ſemipellucidum vel pellucidum.*

cryſtalliſatum. 9. Z. nitoris ſemimetallici, texturæ lamelloſæ, igni injectum ſulphuris flammam & vaporem eructans, forma cryſtallorum aggregatarum.

Syſt. nat. XII. 3. *p.* 127. *n.* 7. Zincum ſterilum octaedro-cryſtalliſatum conglomeratum.

Brünn. Cronſt. Miner. §. 228. 2. 4.

Waller. ſyſt. miner. 2. *p.* 221. *n.* 7. Zincum ſulphure ferro mineraliſatum, cryſtalliſatum.

Habitat in Scotia (*prope* Airds,) Hercynia (*prope* Lautenthal,) Saxonia (*prope* Scharfenberg & Freyberg,) Bohemia (*prope* Ratieborziz,) Hungaria, Temeſia (*prope* Dognaska) & Tranſilvania, *colore ſimiliter variabili, quam in Pſeudogalena, cui præter formam ſimile, ſuperficiei colore interdum alio, vireſcente, chalybeo aut variegato, nunquam opacum aut ſubopacum, nunc pyramides ſimplices tri-vel hexaedras, nunc duplices tetraedras, nunc cubos, nunc priſmata tetraedra obliquangula vel rectangula, nunc dodecaedra, nunc polyedra referens.*

82. MOLYBDÆNA. Cana, fragilis, ad aërem conſtans, igne difficulter liqueſcens, ab acidis difficulter, a natro nequaquam ſolvenda, magnetem non ſequens, ponderis ſpecifici = 6963 : 1000.

♃

Calce alba volatili cum borace in vitrum violaceum, cum oſſium acido in viride abeunte, acida aqua ſolvenda, ſolutione ab inſtillato ſanguinis lixivio aut gallarum infuſo colorem ſpadiceum, ab injectis aliis metallis, addita acidi muriæ portiuncula, colorem cæruleum induente.

Vulgaris. 1. M. moliſſima opaca dilute plumbea attactu pinguis incurvo-lamelloſa attactu pinguis igne ſulphur eructans.

Syſt. nat. XII. 3. *p.* 121. *n.* 1. γ. Molybdænum tritura cæruleſcente ſublamelloſum.

Waller. ſyſt. miner. 2. *p.* 249. *n.* 1. a. Molybdæna pura membranacea nitens.

Cronſt. miner. §. 153. 2. 1. Molybdæna membranacea nitens.

Scheele act. Stockh. 39. 1778. *p.* 247. &c.

Habitat ſæpius feldſpato aut ſaxis ex eo compoſitis innidulans, *in* Suecia (*prope* Biſpberg, Baſtnas, Grosdrum & Landäs,) Saxonia (*prope* Altenberg,) Sabaudia (*ad montem* Talifre,) & Calabria (*prope* Squillace, *in valle* S. Simio & *in montibus* Jejunio & S. Niccolai,) *in fragmenta indeterminata diſſiliens*, *in granula ſecedens*, *ſulphuris ſat magnam copiam continens*, *ponderis ſpecifici* = 4569 : 1000 *formæ utplurimum communis*, *rarius tabulas tenues exiles hexaedras referens*.

83. STANNUM. Malleabile, molle, mutum, album, ♃ ponderis ſpecifici = 7150 : 1000, nitoris conſtantioris.

Igne facilime liqueſcens & in calcem canum abiens, difficulter in vitrum idque quidem lacteum abeuntem, quem colorem etiam aliis vitris pellucidis conciliat.

Acidis facile, at imperfecte ſolvendum, iisque amarum ſaporem impertiens.

nativum. 1. St. album nitoris metallici purum.

Syſt. nat. XII. 3. *p.* 236. *n.* 1. Stannum nudum.

de Coſta & Borlace act. angl. 56. *p.* 35. 305. & 691. *p.* 47.

Habitat in Cornubia, *cruſta cryſtallini obductum. An vere nativum ?*

aureum. 2. St. aurei coloris facile in flammam cæruleam exardeſcens, & calcem albam relinquens.

Bergman. nov. act. Stockh. 2. 1781. *p.* 328.

Gerhard Grundr. mineral. p. 250.

Habitat rarius & minoribus tantum portionibus aliis foſſilibus inſpersum in Sileſia *prope* Gieren.

pyriti-cosum. 3. St. chalybei coloris, nitoris metallici, texturæ radiatæ igne ſulphur eructans & calcem albam relinquens.
Bergman nov. act. Stockh. 2. 1781. *p.* 328.
Gerhard. Grundr. Mineral. p. 250.
Habitat in Sileſia *prope* Gieren *&* Cornubia, *flamma minus lucida ardens.*

mineralisatum. 4. St. nitens opacum lacteum tritura ex flaveſcente alba.
Gerhard Grundr. Mineral. p. 250.
Habitat in Sileſia (*prope* Gieren,) *quartzo fuſciis micæ plurimis vario inhærens.*

ſpatoſum. 5. St. albidum lamelloſum diaphanum ſemipellucidum aut pellucidum.
Syſt. nat. I. *p.* 182. *n.* 6. XII. 3. *p.* 131. *n.* 4. Stannum ſpatoſum ſubdiaphanum album.
Vogel mineralſ. 166. 461. *Juſt. miner.* 120. Stannum ſpati.
Waller. miner. 303. Lapides ſtanniferi ſpathacei.
Waller. ſyſt. miner. 2. *p.* 322. *n.* 5. Stannum arſenico & ferro mineraliſatum, minera ſpathiformi.
Brünn. Ueberſ. Cronſt. miner. p. 198. Zinnſpath.
Habitat in Bohemiæ *ſtannifodinis, facile cum wolframo albo confundendum, difficulter acidis ſolvendum & igne liqueſcens, raro omnis ferri expers, crebro quoque arſenici pecticulas ſubtiliſſimas immixtas habens, una cum carbonibus igni expoſitum ſtannum largiens.*

ligneum. Woodtin. 6. St. dilute ligneum ſtriis alternatim dilutioribus pictum ſtellatim fibroſum ſcintillans, in cruſtas ſecedens, in fragmenta cuneiformia diſſiliens.
Waller. ſyſt. miner. 2. *p.* 322. *n.* 6. Stannum arſenico & ferro mineraliſatum, minera amianthiformi alba.
Brünnich. act. Stockh. 39. 1778. *p.* 320.
Klaproth Schr. berl. Naturf. 7. *p.* 169. 180. Holzzinn.
Habitat in Cornubia, *potiſſimum in parochiis* S. Columbi, Dyonyſii *&* Routh, *renis aut globi formam præ ſe ferens, acidis difficulter ſolvendum, igne colorem mutans, & difficilime liqueſcens, opacum, ferri dives, ut tamen ſtanni* $\frac{63}{100}$ *largiatur, ponderis ſpecifici* = 5800 : 1000.

amorphum. 7. St. compactum opacum formæ communis coloris obſcuri, tritura dilute cinerea.
Syſt. nat. I. *p.* 182. *n.* 4. XII. 3. *p.* 130. *n.* 3. Stannum amorphum rufo-nigricans.

Waller. miner. 283. Stannum ferro & arſenico mineraliſatum, lapidibus ſimplicioribus ſimile.

Waller. ſyſt. miner. 2 *p.* 321. *n.* 4. Stannum arſenico & ferro mineraliſatum, minera ſolida, colore obſcure rubente.

Woltersd. mineral. 32. Stannum amorphum petra varia veſtitum.

Cronſt. miner. §. 180. 1. 1. 1. 1. Minera ſtanni vitrea arſenicalis amorpha.

Habitat, interdum libera in montibus accumulatis jacens, in India *&* *inſula* Banca, *in regno* mexicano *&* chiſenſi, *in* Angliæ *provinciis* Devonia & Cornubia, *inſulisque* Scilly, *in* Saxonia & Bohemia Franconia*que finitimis, in* Sileſia (*prope* Gieren,) Gallicia, *atque inferiori* Hungaria, *cobalti interdum, ſemper fere arſenici, præſertim albicantis particulis plurimis, crebro ſubtiliſſimis inſperſis, ut igni expoſitum arſenici vaporem eructet, nonnunquam albus arſenici pulvis effloreſcat, igne ceterum difficulter liqueſcens, cum ſtrepitu diſſiliens & carbonibus interjectis ſtannum exhibens, acidis difficulter ſolvendum, ſæpe ſcintillans, in granula frequentius quam in cruſtas ſecedens, coloris fuſci aut nigri, ponderis ſpecifici =* 6750 : 1000, *utplurimum parum nitens, interdum ſpeculi inſtar, nonnunquam ſpongioſum.*

granulatum. Zwitter. 8. St. compactum opacum ponderoſum tritura dilute cinerea forma cryſtallorum minorum extrinſecus nitentium.

Syſt. nat. XII. 3. *p.* 130. *n.* 2. Stannum granis cryſtallinis aggregatis.

Waller. miner. 282. Stannum ferro & arſenico mineraliſatum, cryſtallis ſtanni minimis.

Vogel mineral. 461. Minera cryſtallorum ſtanni.

Cronſt. miner. §. 180. 1. 1. 1. 2. 2. Minera ſtanni vitrea arſenicalis cryſtalliſata, cryſtallis minoribus.

α) *Waller. ſyſt. miner.* 2. *p.* 320. *n.* 3. Stannum arſenico mineraliſatum, minera irregulari, cryſtallis mineralibus ſtanni minimis in matrice lapidea aggregatis.

β) *Waller. ſyſt. miner.* 2. *p.* 322. *n.* 7. Stanni minera arenis vel terris immixta.

Habitat cum amorpho, *cryſtallis rarius flavis, flavicantibus aut vireſcentibus, quam rubris, fuſcis aut nigris, nunc quartzo, micæ, argillæ, lithomargæ, fluori, ſpato, ſteatitæ aut compoſito ex his lapidi immerſis aut in humo arenave liberis, nunc parallelepipeda rectangula, nunc pyramides tetraedras ut plurimum duplices, rarius perfec-*

tas, quam ad baſin communem truncatas vel in aciem terminatas, nunc priſmata tetraedra, utrinque pyramide rarius octaedra, quam tetraedra terminata, interdum geminatim pyramidibus cohærentia, non raro pyramidibus aut angulis aut marginibus truncatis referentibus ceterum amorpho ſimile, interdum ſubopacum.

cryſtallinum. 9. St. compactum opacum ponderoſum, tritura dilute cinerea, forma cryſtallorum majorum.

Syſt. nat. I. *p.* 181. *n.* 1. Stannum cryſtallis pyramidatis irregularibus nigris.

Syſt. nat. XII. 3. *p.* 130. *n.* 1. Stannum teſſeris cryſtallinis.

Gronov. ſuppl. 10. *n.* 31-41. *Woltersd. min.* 32. Stannum polyedrum irregulare nigrum.

Waller. miner. 302. Stannum ferro & arſenico mineraliſatum., minera cryſtalliſatione polyedra.

Waller. ſyſt. miner. 2. *p.* 319. *n.* 2. Stannum arſenico mineraliſatum, minera cryſtalliſata, figura polyedrica, diverſo colore.

Cronſt. miner. §. 180. 1. 1. 1. 2. 1. Minera ſtanni vitrea arſenicalis cryſtalliſata, cryſtallis majoribus.

Imper. hiſt. nat. 519. Ingemmatio ſtanni.

Habitat cum amorpho, cui præter figuram cryſtallorum majorum ſimile, rariſſime album, forma cryſtallorum, interdum granatos referentium, ad granulatum accedens, ab hoc & amorpho vix ſpecie diſtinctum.

84. COBALTUM. Durum, fragile, nitoris exigui
K fugacis, coloris chalybei, ponderis ſpecifici=7600 : 1000.
Igne difficilius cupro liqueſcens, diutius efficaci in calcem nigram abiens, quæ vitris cæruleum colorem affricat.
Acidis facile ſolvendum iisque colorem rufeſcentem impertiens, calore in viridem & modo ferri expers ſit in cæruleum tranſeuntem.

nigrum. 1. C. inconſpicuum coloris obſcuri prunis iaſperſum nullum arſenici vaporem eructans.

Cronſt. miner. §. 245. Cobaltum calciforme martiale abſque arſenico.

α) friabile, inquinans.

Cronſt. miner. §. 245. 1. 1. 1. Ochra cobalti nigra.
Waller. ſyſt. miner. 2. *p.* 183. *n.* 7. a. Ochra cobalti nigra.

β) induratum.

Syſt. nat. XII. 3. *p.* 129. *n.* 4. Cobaltum (ſcoriatum) poroſum glauceſcens fuſcum.
Cronſt. miner. §. 245. 1. 1. 2. Minera cobalti vitrea.
Geſn. cadm. 17. *Vog. miner.* 504. Cobaltum ſcoriæ ſimile.
Waller. miner. 225. Cobaltum arſenico mineraliſatum, minera glauca.
Waller. ſyſt. miner. 2. *p.* 180. *n.* 5. Cobaltum mineraliſatum, minera colore nigreſcente vel glauco, ſcoriis ſimili.
Habitat in Auſtria (*prope* Kleinzelle,) Salisburgi, Fürſtenbergiæ (*prope* Wittichen,) Hennebergiæ (*prope* Schwarzna,) Thuringiæ (*prope* Saalfeld) & Saxoniæ (*prope* Annaberg, Schneeberg, Camsdorf & Oberrchlübel) *ſinis colore nigro, fuſco, glauco, hepatico, rarius cinereo, ſemper ferri portionem continens, interdum ferro ochraceo interſperſum, β) duriuſculum, compactum, nunc majoribus minoribusve portionibus aliis foſſilibus inſperſum nunc venarum ad inſtar hæc percurrens aut cruſtæ more obducens, formæ utplurimum communis, interdum reniforme aut botryoides, nonnunquam argentum larvatum aut nativum continens.*

[…]chra-ceum. 2. C. inconſpicuum intus terreum, coloris dilutioris, prunis inſperſum arſenici fumum eructans.

Syſt. nat. X. *p.* 47. *Schreb. lith.* 128. Ochra wismuthi rubra.
Syſt. nat. XII. 3. *p.* 193. *n.* 8. Ochra cobalti pulverea fulva.
Waller. miner. 234. Gobalti minera colore rubro ſ. flavo.
Waller. ſyſt. miner. 2. *p.* 181. *n.* 7. Cobaltum facie & conſiſtentia terrea.
Carthenſ. miner. 56. *n.* 2. Cobaltum ochraceum rubrum.
Cronſt. miner. §. 246. 2. 1. Minera cobalti calciformis calce arſenici mixta pulverulenta.

Habitat rarius in venis aut ſtratis, rarius in Hungariæ (*prope* Topſchau,) Temeſiæ (*inter* Bogſchan *&* Doguaska,) Naſſoviæ, Hercyniæ (*prope* Andreaſberg,) Maynæ Britanniæ, Galliæ (*prope* Baigori *in montibus* Pyrenæis, (*prope* Allemont *in* Delphinatu *& prope* Fanum S. Mariæ, *inter* Lotharingiam *&* Alſatiam *intermedium,*) *paulo frequentius in* Hiſpaniæ (*prope* Guſtoa *&* Bielſa Arragoniæ,) Pedemontii (*prope* Uſſei,) Sabaudiæ, Valeſiæ (*prope* S. Maurice,) Wirtembergiæ (*prope* Alpisſpach,) Haſſiæ (*prope* Biber, Riegelsdorf *&* Schmalkalden,) Hennebergiæ (*prope* Scweina,) Sileſiæ, Sueciæ *præſertim* Helſingiæ *&* Norwegiæ, *præſertim autem in* Bohemia (*potiſſimum prope* Joachimsthal,) Saxoniæ, Thuringiæ (*prope* Saalfeld) *&* Fürtembergiæ (*prope* Wittichen *&* Wolfach) *fodinis, utplurimum rubrum, perſici flores colore æmulans, rarius corii colore tinctum, rariſſime flavicans aut album, interdum niccolo, wismutho, cupro ochraceis intermiſtis vireſcens viride aut cæruleum, igne facile in vitrum cæruleum colliqueſcens, rarius particulis majoribus minoribusve aliis foſſilibus inſperſum, quam ſuperficiale, ex aliis cobalti mineris effloreſcens, formæ utplurimum communis, rarius botryoides.*

[…]alti-[…]o, 3. C. radiatum rubrum, nitoris vitrei prunis inſperſum arſenici fumum eructans.

Syſt. nat. XII. 3. *p.* 195. *n.* 15. Ochra cobalti germinans purpurea.

[…] *perando vitro cæruleo ſmaltæ nomine venienti atque atramento ſympathetico* […]*ſſimum inſervientis regulum primus demonſtravit A.U. Upſ.* 1733. G. Brandt, […] *ſummus mineralogus chemicus ann. agens* 74. *d.* 29. *Apr.* 1768. *obiit*, […]*orium naturalem expoſuere* J. A. Geſnerus *hiſtoria cadmiæ Berol.* 4. 1744. & […]7. J. G. Lehmann *Cadmiologia.* Regiom. 1761. 4. *efflorescentia colore ſuo* […]*ſici flores æmulante ſe prodit.*

Cartheuſ. miner. 56. *n.* 2. Cobaltum ochraceum rubrum.
Geſn. cadm. 21. *n.* 37. *Henck. miner.* 107. Coboltblüte, Flos cobalti.
Cronſt. miner. §. 246. 2. 1. 2. Ochra cobalti rubra indurata.
Waller. ſyſt. miner. 2. *p.* 181. *n.* 6. Cobaltum arſenico mixtum, colore rubro vel flavo effloreſcens.
Habitat cum ochraceo, arſenici non calcem, ſed acidum immixtum habens, colore utplurimum perſici flores, interdum coccionellam imitans vel kermeſinum, ſuperficiale, vel majoribus minoribusve partibus aliis foſſilibus inſperſum, in granula ſecedens, radiis, quos textura oſtendit, nunc latioribus nunc anguſtioribus, faſciculatis vel ſtellatis, ſæpius formæ communis, quam botryoides aut tabulas minimas rectangulas tetraedras ad facies terminales in aciem exeuntes aut aciculas exiles tetraedro priſmaticas, in faſciculos aut ſphæras aggregatas referentes.

ſtercoreum. 4. C. inconſpicuum coloris ſordidi mixti, uſtum & cum plumbo fuſum argenti portionem relinquens.
Waller. ſyſt. miner. 2. *p.* 345. *n.* 16. Argentum nativum vel mineraliſatum, lapidibus diverſicoloris mixtis inhærens, colore ſtercoris anſerini.
v. Born. Brief XXII. *p.* 220. *Schreiber bergm. Journ.* 1788. 1. *p.* 43.
Habitat in Norwegiæ (*prope* Kongsberg,) Saxoniæ (*prope* Ehrenfriedersdorf, Johanngeorgenſtadt & Marienberg,) Hungariæ (*prope* Schemniz,) Wirtembergiæ (Kœnigswart,) & Delphinatus (*prope* Allemont) *fodinis, argentum nativum ſemper nunc parciori nunc largiori copia (ad $\frac{1}{4}$ uſque) continens, ferrum quoque, non raro præterea niccolum ochraceum & arſenicum, interdum argillam & hydrargyrum, utrum omne huc ſpectat. An potius ferri mineris accerſendum?*

ſulphuratum. 5. C. nitoris metallici ſtannei coloris prunis inſperſum ſulphuris vaporem eructans, diuque igne agitatum puram cobalti calcem relinquens.
Geyer. chem. Annal. 1788. 1. *p.* 67.
Habitat in Suecia *prope* Calmariam.

pyritiCoſum. 6. C. nitoris & coloris ſtannei igne agitatum ſulphuris vaporem eructans & carbonum pulvere interſperſo materiem relinquens magneti obtemperantem.
Syſt. nat. XII. 3. *p.* 129. *n.* 2. *Swab act. Holm.* 1746. *Cronſt. miner.* §. 248. Cobaltum ferro ſulphurato mineraliſatum.

Waller. ſyſt miner. 2. p. 178. *n.* 3. Cobaltum ferro ſulphurato mineraliſatum, colore albo, parum nitens.

Habitat in Sueciæ (*prope* Riddarhytta,) Saxoniæ, Bohemiæ (*prope* Joachimsthal) & Thuringiæ (*prope* Saalfeld) *fodinis texturæ granulatæ, in granula quoque ſecedens, rarius ſuperficiale, ſuperficie interdum ſpeculi ad inſtar nitente, aut ſulſis decuſſantibus exarata, cubos interdum exiles perfectos aut truncatos ſuperficiebus planis vel convexis conſpicuos, rarius pyramides tetraedras duplices ad angulos valde truncatas, aut priſmata puſilla hexaedra, utrinque pyramide tetraedra terminata referens.*

Cryſtallinum. 7. C. nitoris & coloris ex ſtanneo-chalybei, igne agitatum ſulphuris arſenicique vaporem eructans, & materiam relinquens magneti obtemperantem.

Cronſt. miner. §. 249. Cobaltum cum ferro ſulphurato & arſenicato mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 176. *n.* 1. Cobaltum ferro arſenicato cum vel ſine ſulphure mineraliſatum, minera alba, planis aut granulis micam.

β) *Syſt. nat.* XII. 3. *p.* 129. *n.* 1. Cobaltum cryſtalliſatum Fig. 35.

Cartheuſ. miner. 55. Cobaltum mineraliſatum cryſtallinum, cryſtallis polyedris nitidiſſimis albis.

Waller. ſyſt. miner. 2. *p.* 179. *n.* 4. Minera cobalti cryſtalliſata.

Habitat in monte Sueciæ Tunaberg Sudermanniæ, *ſuperficiei colore interdum in fulvum vergente, ſæpe priſmata referens hexaedra, utrinque pyramide irregulari hexaedra terminata, ita ut cryſtallus conſtet tetragonis ſex, ſexagonis* 12, *faciebus tribus proximis eodem ubique modo ſtriatis, & facies tres ſimiles oppoſitas ſibi habentibus, ut alternis ternis ſemper contrarie ſtriatis, ut, quocumque vertas, ſemper ſint latera tria proxima reliquis contrario modo ſtriata; ex his tribus planum medium ſemper tetragonum, lateralia hexagona.*

Arſenicale. 8. C. nitoris & coloris obſcure chalybei igne agitatum arſenici fumum eructans & materiem relinquens magneti obtemperantem.

Syſt. nat. XII. 3. *p.* 129. *Cronſt. miner.* §. 247. 1. Cobaltum ferro & arſenico metalliformi mineralyſatum.

Waller. miner. 226. Cobalti minera diverſimode figurata.

Waller. ſyſt. miner. 2. *p.* 177. *n.* 2. Cobaltum ferro & arſenico mineraliſatum, minera cinerea difformi, particulis parce vel non nitens.

Habitat in Saxoniæ (*prope* Freyberg, Annaberg, Schneeberg, Johanngeorgenſtadt, Bohemiæ *prope* Joachimsthal,) Thuringiæ (*prope* Saafeld,) Stiriæ *prope* Schladming,) Lotharingiæ (*prope* Giromagny,) & Norwegiæ (*prope* Kongsberg,) *fodinis cobalto cum ferro & arſenico conjuncto, texturæ nunc granularis, nunc planæ ad conchaceam accedentis, rarius parallale, ſtellatim aut faſciculatim fibroſæ, forme utplurimum communis, interdum botryoides, nonnunquam arbuſcularum imaginibus nigris pictum.*

hiſpanicum. 9. C. nitoris & coloris chalybei, igne agitatum ſulphuris & arſenici vaporem eructans, & materiem relinquens magneti non obtemperantem.

Habitat in Arragoniæ & Valeſiæ *fodinis, ferri expers, & præter cobaltum ſulphuris & arſenici ferax.*

5. **FERRUM.** ♂ Poſt platinam tenaciſſimum, ſumme elaſticum & duriſſimum, ſonorum, nigredinis ſibi propriæ, magnetem ſequens, & in magnetem facile convertendum, rubiginem facilime contrahens, ponderis ſpecifici = 7600 : 1000.

Igne facile candens, paulo fortiori ſcintillans elidens, fortiſſimo demum liquandum, facilius in calcem rubram ſquamoſam abiens; quæ vitris adjecta vireſcenti, aut ſi vehementius uſta ſit, luteo illa colore perfundit.

Acidis omnibus facile ſolvendum, quibus, acrimonia omni orbans, ſaporem adſtringentem impertitus, per gallarum tincturam colore nigro, per ſanguinis lixivium cæruleo ex illis præcipitandum.

...ivum. 1. F. nudum nitoris metallici.

Syſt. nat. XII. 5. *p.* 136. *n.* 1. *Muſ. Teſſin.* 36. *n.* 1. Ferrum nudum intractabile.

Waller. miner. 242. Ferrum nativum in granulis.

Waller. ſyſt. mineral. 2. *p.* 233. *n.* 1. Ferrum nativum.

Carth. miner. 71. Ferrum nudum malleabile.

Habitat in Islandia, *ducatu* Juliacenſi, Saxonia *prope* Groscamsdorf & Eibenſtock, Sileſiæ, Stiriæ, Salisburgi, Bavariæ *montibus*, *in* Africa (*ad fluvium* Senegal,) *in* Americæ *meridionalis diſtrictu* S. Jacobi del Eſtero, *in* Sibiria *prope montes* Nemiricos *ad fluvium* Jeniſei, *poſterius ramuloſum frigidum quoque malleabile ſoveolis plenum, hinc inde materia pellucida, difficulter igne liquanda, chryſolitos mentiente, texturæ conchaceæ refertis; an omne perfecte metallicum, an album vere nativum?*

chalybeatum. 2. F. retractorium in grana ſecedens nigrum tritura nigra, texturæ compactæ, formæ communis.

Syſt. nat. XII. 3. *p.* 137. *n.* 4. Ferrum retractorium nigricans ſubſcintillans compactiſſimum.

Cronſt. min. §. 210. 2. 1. 1.

Waller. ſyſt. miner. 2. *p.* 237. *n.* 4. a. Minera ferri nigra ſolida.

Habitat ad Sibiriæ *montium* Urdjumski *radicem, in* Sueciæ, *potiſſimum* Weſtmanniæ, Dalecarliæ, Smolandiæ *fodinis, ſubſcintillans poſt ignitionem malleabile, igne facile liqueſcens, ferri boni in eximiam chalybem convertendi largam* $\frac{50-70}{100}$ *portionem exhibens, igne ſulphur nullum exhalans*

ſelectum. 3. F. retractorium in grana ſecedens nigrum tritura nigra texturæ ſubtiliſſime granulatæ, formæ communis.

Syſt. nat. I. *p.* 176. *n.* 13. Ferrum retractorium ſolidum.

Syſt. nat. XII. 3. *p.* 137. *n.* 8. Ferrum retractorium nigrans, particulis ſubimpalpabilibus ſolideſcens.

Cronſt. min. §. 210. 2. 1. 2.

Waller. ſyſt. miner. 2. *p.* 437. *n.* 4. b. & d. Ferrum ſulphure inſenſibiliter mineraliſatum, minera nigricante, tritura nigra magneti amica.

rhombeum. β) *Syſt. nat.* XII. 3. *p.* 137. *n.* 6. Ferrum retractorium nigrans, particulis rhombeis.

Habitat in Americæ *ſeptentrionalis (prope* Crownpoint,) Laponiæ (e. gr. *prope* Kirnuar, Jellivari, Janusvando,) Norwegiæ (*prope* Bramble, Larmſtadt, Tornbionsbor, Arendal, Roennegen, Gellebeck, Nordſee,) Sueciæ *plurimi*, Pyrenæorum (*potiſſimum inter* Sem & Lercoul,) Pedemontii (*prope* Traber & Belangero,) Elbæ Sardiniæ, Bergami, Breſciæ, Stiriæ, Carinthiæ, Hungariæ, Bohemiæ & Saxoniæ *nonnulis fodinis, chalybeato ceterum ſimile, in fragmenta rhombea* (β) *interdum diſſiliens.*

commune 4. F. retractorium in grana ſecedens nigrum tritura nigra, texturæ evidentius granulatæ, formæ communis.

Syſt. nat. I. *p.* 177. XII. *n.* 16. 3. *p.* 138. *n.* 10. Ferrum retractorium nigrans, particulis ſubgranulatis inæqualibus.

Cronſt. min. §. 210. 2. 1. 3.

Waller. ſyſt. min. 2. *p.* 238. *n.* 4. c. Minera ferri nigra granularis.

β) *Syſt.*

(β *Syſt. nat.* I. *p.* 177. *n.* 15. XII. 3. *p.* 138. *n.* 9. Ferrum (granoſum) retractorium nigrans particulis arenaceis.

γ) *Syſt. nat.* I. *p.* 177. *n.* 19. XII. 3. *p.* 138. *n.* 12. Ferrum (talcoſum) retractorium nigrans, talco inſperſum.

δ) *Syſt. nat.* I. *p.* 177. *n.* 20. XII. 3. *p.* 138. *n.* 13. Ferrum (calcarium) retractorium nigrans marmoris.

ε) *Syſt. nat.* XII. 3. *p.* 137. *n.* 5. Ferrum (ſidereum) retractorium nigrans, maculis rhombicis mineræ ferri inſperſis.

ζ) *Syſt. nat.* I. *p.* 177. *n.* 21. XII. 3. *p.* 138. *n.* 11. Ferrum (molle) retractorium nigrans pyriticoſum.

Habitat cum ſelecto, cui ceterum ſimile, in Sueciæ *potiſſimum fodinis. interdum punctatim ſteatitæ* (γ) *aut lapidi calcario* (δ) *inſperſum aut fruſtis majoribus ferro intractabili rubro micaceo immerſum aut pyriten ſibi inſperſum continens & ea de cauſa igne tortum ſulphuris vapores eructans.*

cryſtallinum. 5. F. retractorium nigrum tritura nigra, forma cryſtallorum, Fig. 23.

Syſt. nat. I. *p.* 175. *n.* 1. Ferrum cryſtalliſatum.

Syſt. nat. XII. 3. *p.* 137. *n.* 3. Ferrum cryſtalliſatum retractorium confertum adhærens.

It. wgoth. 258. Minera ſtanni.

Waller. ſyſt. miner. 2. *p.* 234. *n.* 2. Ferrum mineraliſatum cryſtalliſatum.

β) *Syſt. nat.* XII. 3. *p.* 136. *n.* 2. Ferrum (teſſellare) cryſtalliſatum retractorium ſolitarium.

Cronſt. miner. §. 201. 2. 1. 5. Minera ferri calciformis inaurata octaedra.

γ) *Syſt. nat.* I. *p.* 165. *n.* 4. Alumen talcoſum opacum.

Amœn. acad. 1. *p.* 481. Alumen ſolitarium cinereo-fuſcum ollaris.

Waller. miner. 130. Talcum cubicum octaedrum.

Habitat in Norwegia (*prope* Bramble,) Sueciæ *ferrifodinis*, Gallicia, Carinthia (*prope* Fragant,) Corſica, Delphinatu (*valle* Volyaudemer,) & Sabandia, *utplurimum ſolitarium nunc liberum nunc marmori micanti, quartzo, ſerpentino inhærens.*

glareoſum. 6. F. retractorium nigrum tritura nigra in grana comminutum.

Syſt. nat. I. *p.* 208. *n.* 8. XII. 3. *p.* 199. *n.* 13. *Muſ. Teſſ.* 112. Arena (ferrea) ferri atra.

Waller. miner. 251. Ferrum arenæ mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 255. *n.* 18. Ferrum mineraliſatum in formam arenæ collectum.
Woltersd. miner. 31. Ferrum glareoſum atrum magnetem ſequens.
Vogel miner. 80. Arena ferrea.
Cartheuſ. miner. 10. Arena metallica.
Habitat in Italia *ad radicem montium colliumque vulcaniorum, ad* Sibiriæ, Groenlandiæ, Islandiæ, Lapponiæ, Fennoniæ, Sueciæ *fluvios & littora, ad littora maris* Baltici, *ad rivum* Kirniz Luſatiæ, *in* Bohemia (*prope* Preſniz.) *in* Tranſilvania (*ad fluvium* Aranjos,) *in* Elba, Britannia (*ad fanum* S. Maclovii,) Jamaica, India, *potiſſimum in maritimis* Coromandel *& Zeylona, ex mineris præcedentibus per torrentes & maris undas comminutis & in remota ſæpe loca delatis natum, granis obtuſe angulatis.*

hepaticum. 7. F. retractorium hepaticum, tritura nigra ſubſcintillans, in fragmenta ſubcubica diſſiliens.
Habitat in alpibus Lapponicis, e. gr. Jellivari, *compactum. An diſtincta ſpecies?*

nitens. 8. F. retractorium nigrum compactum tritura rubra, in fragmenta nitentia cubica diſſiliens.
Cronſt. miner. §. 211. 2. 3.
Habitat in Norwegiæ *fodinis prope* Arendal. *An diſtincta ſpecies?*

rhombeum. 9. F. retractorium tritura rubra compactum in fragmenta rhombea diſſiliens.
Syſt. nat. XII. 3. *p.* 139. *n.* 14. Ferrum (decuſſatum) retractorium rubricoſum rhombeo-ſtriatum.
Habitat in Sueciæ *fodinis* Bitsbergenſibus. *An diſtincta ſpecies?*

ſuecicum. 10. F. retractorium compactum nigrum, tritura rubra, in fragmenta indeterminata diſſiliens.
Cronſt. miner. §. 211. 2. 1.
β?) *Syſt. nat.* 177. *n.* 14. XII. 3. *p.* 139. *n.* 15. Ferrum (virens) ſubretractorium rubricoſum, particulis impalpabilibus nitidis.
Habitat in Sueciæ *fodinis* (*prope* Bilſee.) *β*) *adinoto inhærens prope* Norberg, Persberg, Grengie, Kengis.

lamelloſum. 11. F. retractorium nigrum lamelloſum, tritura rubra.
Cronſt. miner. §. 211. 2. 4. Minera ferri retractoria tritura rubra lamelloſa.

β) *Syſt. nat.* I. *p.* 177. *n.* 17. XII. 3. *p.* 139. *n.* 16. Ferrum (ſquamoſum) ſubretractorium rubricoſum, particulis ſquamoſis.

Habitat in Norwegia (*prope* Gellebeck).

Magnes. 12. F. attractorium compactum formæ communis.

Syſt. nat. I. *p.* 176. *n.* 12. XII. 3. *p.* 142. *n.* 27. Ferrum attractorium.

Woltersd. miner. 31. Ferrum amorphum, ferrum attrahens.

Waller. ſyſt. miner. 2. *p.* 235. *n.* 3. Ferrum mineraliſatum, minera ferrum attrahente & polos mundi oſtendente.

Habitat in Daniæ, Norwegiæ (*prope* Arendal, Lærmſtadt, Bamble,) Sueciæ (e. gr. *ad montem* Hœgberg,) Lapponiæ (*prope* Januswando,) Sibiriæ, *potiſſimum* Uralicis, Indiæ, *regni* Peruani, *inſulæ* Serpho archipelagi, Elbæ, Hungariæ (*prope* Taiſolz,) Temeſiæ (*prope* Dognaska,) Bohemiæ (*prope* Piatte, Orbicau & *ad montem* Caff,) Saxoniæ (*prope* Johanngeorgenſtadt, Ehrenfriedersdorf, Dorſchemniz, Schmalzgrube & Breitenbrunn,) Franconiæ (*prope* Lichtenberg) & Sueviæ (*prope* Aalen *ferri-fodinis*, *in grana ſecedens*, *in fragmenta indeterminata obtuſangula diſſiliens*, *utplurimum*, *parum nitens*, *durum*, *fragile*, *ferrei aut chalybei coloris*, *rarius ex cæruleſcente cinerei*, *fuſci aut rufeſcentis*, *tritura rarius rubra*, *quam nigra*, *rarius* (e. gr. *in* Norwegia) *globoſum*, *polos duos monſtrans polos mundi reſpicientes*, *hinc experimentis phyſicis*, *navigationi*, *inveſtigando ferro aliisque uſibus inſerviens.*

Granulare. 13. F. attractorium texturæ granularis formæ communis.

Cronſt. miner. §. 209. 2. 1. 2. 1. 2. & 3.

Waller. ſyſt. miner. 2. *p.* 235. *n.* 3. b. Magnes colore ferreo granularis.

Habitat in Sueciæ *ferrifodinis* Kærrgruſoe & *prope* Norberg,) *magneti ceterum ſimile.*

Fibroſum. 14. F. attractorium texturæ fibroſæ formæ communis.

Karſten Lesk. Mineralieb. 1. *p.* 442.

Habitat in Suecia, *coloris inter dilute chalybeum & cæruleſcenti-canum intermedii*, *parum nitens*, *in grana ſecedens*, *opacum*, *molle*, *fragile*, *in fragmenta indeterminata non valde obtuſangula diſſiliens*, *tritura ex cæruleſcenti atra*, *fibris tenuis rectis faſciculatis.*

ſquamoſum. 15. F. attractorium texturæ lamelloſæ formæ communis.
Cronſt. miner. §. 209. 2. 1. 2. 1. 4.
Karſt. Lesk. Mineralkab. 1. *p.* 446.
Danz chem. Annal. 1785. 2. *p.* 426.
Habitat in Norwegia (*prope* Bamble & Sandſwer,) *in terris* Rhenanis, *atrum, lamellis craſſis rectis, tritura rubra.*

ſubtetraedrum. 16. F. attractorium atrum formæ cryſtallinæ.
Habitat in Norwegiæ (*prope* Bramble,) Saxoniæ (*prope* Breitenbrunn) & Carinthiæ (*prope* Fragant & Huttenberg) *fodinis, interdum una cum cupro fulvo gneiſſo fornacum immerſum, cryſtallis utplurimum pyramide tetraedrum duplicem ſæpe exilem, rarius priſma tetraedrum obliquangulum aut cuneum hexaedrum altero fine in aciem, altero in pyramide-tetraedrum irregularem terminato referentibus.*

baſalticum. 17. F. attractorium ſpadiceum columnas graciles in majores faſciculatas interdum articulatus referens.
Hacquet Schr. berl. Naturf. 4. *p.* 13. *t.* 3. *f.* 1. 2.
Danz chem. Annal. 1785. 2. *p.* 424.
Flurl bergm. Journ. 1789. 2. *p.* 1092.
Reuſſ. Orogr. des boehm. Mittelgeb. p. 89.
Ferber Bemerk. in Neufchatel &c. p. 5.
Stouz Abh. der boehm. Geſ. 1788. *p.* 174.
Habitat in Ducatus Bipontini *valle* Itas, *etiam prope* Moſchel-Landsberg, *in* Franconia (*prope* Lichtenberg,) Palatinatu *ſuperiori* (*prope* Amberg) & Bohemia (*prope* Prizen, Augezd & *monaſterium* Oſſeg,) *ampla utplurimum ſtrata conſtituens, columnis calore & ad aërem a ſe invicem diſcedentibus, ferrum, frictione ad magnetem præparatum trahens.*

micaceum. 18. F. intractabile ferrei coloris nitens texturæ lamelloſæ.
Syſt. nat. I. *p.* 176. *n.* 7. XII. 3. *p.* 139. *n.* 18. Ferrum intractabile rubricans micaceum nitens.
Waller. miner. 169. Ferrum arſenico mineraliſatum minera micacea rubra ſ. attritu rubente.
Waller. ſyſt. miner. 2. *p.* 242. *n.* 8. Ferrum mineraliſatum, minera micacea ſquamoſa, colore griſeo ſeu ferreo nitens, tritura humida rubra.
Carth. miner. 72. Ferrum mineraliſatum ſquamoſum griſeum ſplendens friabile.
Cronſt. miner. §. 201. 2. 1. 4. Hæmalites cæruleſcens ſquamoſus.

β) *Syſt. nat.* I. *p.* 177. *n.* 18. Ferrum retractorium particulis ſublaminoſis ſolideſcentibus.

Syſt. nat. XII. 3. *p.* 140. *n.* 19. Ferrum (cæruleſcens) intractabile rubricans, ſquamis ſublaminoſis cæruleſcentibus.

Waller. miner. 257. Minera ferri cæruleſcens laminoſa.

Habitat in Sibiriæ (Nefedjewskoi *ad lacum* Onega,) Lapponiæ (*prope* Jellivari,) Sueciæ (*prope* Grengie & Calmar,) Hercyniæ (*prope* Oſterodam & Zorge,) *comitatus* Sayn (*ad montem* Streitberg,) Franconiæ (*ad* Ochſenkopf *montis* piniferi,) Saxoniæ (*prope* Altenberg & Johanngeorgenſtadt,) Luſatia (*prope* Markersdorf) & Hungariæ (*prope* Topſchau) *ferrifodinis, utplurimum in grana, rarius in cruſtas, rariſſime in bacillos ſecedens, lamellis ſæpius incurvis quam rectis, crebro partibus majoribus, interdum minoribus, aliis foſſilibus quartzo, fluori, ferro ochraceo, immerſum, rarius ſuperficiale, utplurimum forma communi, interdum forma tabularum hexaedrarum lateribus coalitarum conſpicuum.*

ſpeculare. 19. F. intractabile compactum nitoris & coloris chalybei, tritura rubra, intus ſpeculi inſtar nitens.

Waller. ſyſt. miner. 2. *p.* 239. & 241. *n.* 6. 7. Ferrum mineraliſatum, minera griſea ſeu albo-cæruleſcente, tritura rubra, magnete refractaria & Ferrum mineraliſatum minera cæruleſcente aut nigreſcente, magneti vel amica vel refractaria.

Cronſt. miner. §. 201. 2. 1. 1-3. Minera ferri calciformis indurata cæruleſcens.

β) *Syſt. nat.* I. *p.* 175. *n.* 3. XII. 3. *p.* 140. *n.* 20. Ferrum intractabile rubricans ſcintillans ſolidum rhombeo ſtriatum.

γ) *Syſt. nat.* XII. 3. *p.* 140. *n.* 21. Ferrum (celluloſum) intractabile rubricans, lamellis erectis interſtinctis.

Habitat in Norwegiæ, Sueciæ (*prope* Bitsberg,) Germaniæ (*prope* Osnabrügg, Freyberg, Auguſtusburg & Altenberg,) *etiam prope* Thurmberg *in* Palatinatu *ſuperiori*, *in* Lotharingiæ (*prope* Framont) & Ilvæ *ferrifodinis*, *ſuperficie ſæpe iridis coloribus ludente nunc in grana nunc in cruſtas nunc in bacillos ſecedens, ſæpius forma communi, neque tamen raro forma cryſtallorum, in cellulas aut uvæ ſpeciem ſæpius aggregatarum nunc tabulas hexaedras nunc lentes exiles nunc pyramides triedras duplices & complanatas vel ſimplices & apice inflexas, nunc cubos, rarius perfectos vel marginibus, quam angulis truncatos nunc polyedra preferentium.*

rubrico-ſum. 20. F. intractabile rubrum lamelloſum intus micans molliſſimum attactu pingue & inquinans formæ communis.

Syſt. nat. I. *p.* 176 XII. 3 *p.* 141. *n.* 23. Ferrum intractabile rubricans rubrumque, punctis impalpabilibus nitidis.

Cronſt. miner. §. 203. 3. 2. Hæmatitas ruber ſquamoſus.

Waller. miner. 27. Mica ferrea rubra.

Waller. ſyſt. miner. 2. *p.* 248. *n.* 13. Ferrum ochraceum mineraliſatum rubrum, minera ſquamoſa molli inquinante magneti refractaria.

Habitat in Cambria, Suecia (*prope* Nora, Norberk, *in monte* argenteo occidentali,) Saxonia (*prope* Ehrenfriedersdorf & Camsdorf.) Hennebergia (*prope* Suhl,) Hercynia (*in monte* Iberg & *prope* Zorge,) Naſſovia, Hungaria, *colore nunc magis in chalybeum nunc potius in fuſcum colorem vergente, ſæpius cruſtæ more alias ferri mineras obducens, in grana ſecedens, lamellis incurvis nunc majoribus nunc minoribus, in fragmenta indeterminata valde obtuſangula diſſiliens.*

Hæmatites. 21. F. intractabile fibroſum duriuſculum opacum tritura rubra aut flava.

Glaskopf. *Syſt. nat.* I. *p.* 175. *n.* 5. XII. 3. *p.* 140. *n.* 22. Ferrum intractabile rubricans glanduloſum fragmentis concentratis.

Waller. miner. 243. Ferrum mineraliſatum minera figurata rubra ſ. tritura rubente.

Wolterd. miner. 31. Ferrum rubrum ex centro radiatum & Ferrum rubrum globoſum extus punctatum.

α) nigrum.

Waller. ſyſt. miner. 2. *p.* 245. *n.* 10. Ferrum ochraceum mineraliſatum, minera nigreſcente plerumque teſtacea aut figurata, tritura rubra magneti refractaria.

β) fuſcum.

Cronſt. miner. §. 202. Hæmatites nigreſcens.

Blutſtein. γ) rubrum.

Cronſt. miner. §. 203. Hæmatites ruber.

Waller. ſyſt. miner. 2. *p.* 245. *n.* 11. Ferrum ochraceum mineraliſatum, minera rubra dura utplurimum figurata, magneti refractaria.

δ) flavum, tritura flava.

Cronſt. miner. §. 204. 2. Hæmatites flavus.

Waller. ſyſt. miner. 2. *p.* 247. *n.* 12. Ferrum ochraceum mineraliſatum, minera flava plerumque figurata, raſura flava, magneti refractaria.

Habitat in Angliæ (e. gr. *prope* Durham,) Scotiæ, Norwegiæ, Sueciæ, Sibiriæ, (e. gr. *in montibus* uralenſibus *prope* Sinarskoi & Bodon,) Hungariæ, Carinthiæ (*prope* Hüttenberg,) Bohemiæ, Saxoniæ (e. gr. *prope* Johanngeorgenſtadt & Freyberg & *in monte* Rothenberg,) Haſſiæ (e. gr. *prope* Schmalcalden,) Hercyniæ (e. gr. *prope* Oſterodam,) Electoratus Trevirenſis (e. gr. *prope* Herrauſen,) *ducatus* Bipontini (Friſchermuth, δ) *in* Bohemiæ (*prope* Camerhof) & Hungariæ (*prope* Scalca, Hiadla, Stiar, Roniz, Taiſolz, Boinik & Libeten. γ) *in* Pyrenæorum (*inter* Sem & Lercoul,) Britanniæ (*prope* Salles,) Scotiæ (*prope* Pitfichie *provinciæ* Aberdeen,) Angliæ (*prope* Workington Cambriæ,) Sueciæ (*in monte argenteo occidentali* Weſtmanniæ,) Hercyniæ (*prope* Hüttenrodam, Oſterodam & Andreasberg,) Saxoniæ (*prope* Camsdorf, Schneeberg, Altenberg, Schwarzenberg, Eibenſtock, Grosſchirma, Schellerhau & Bœſenbrunn,) Luſatiæ (*prope* Wehrau,) Bohemiæ (*prope* Presniz, Radnik & Platte,) Hungariæ (*prope* Ruskowa, Sirck & Stoos,) Tranſilvaniæ (*prope* Gyailer,) Carinthiæ (*prope* Neumarktl,) Auſtriæ (*prope* Graskopf,) Wirtembergiæ (*prope* Schiltach) & Bipontii (*prope* Moſchellandsberg,) β) *in* Angliæ (Hubbadule Derby,) Sueciæ (*prope* Norberg,) Saxoniæ (*prope* Bœſenbrunn & Scheibenberg,) Bohemiæ (*prope* Melnik,) Hungariæ (*prope* Ruskowa, Scalca & Boinik,) Carinthiæ (*prope* Bleyberg,) Auſtriæ (*in monte* Gaſtricenſi) & Bipontii (*prope* Tabernas montanas, α) *in* Sibiriæ (e. gr. *prope* Catharinenberg,) Sueciæ (*prope* Bitsberg, Wick, Norberg, Ritterhütte, Langbanshütte &c.,) Norwegiæ (*prope* Arendal,) Lapponiæ (*prope* Jellivari,) Angliæ (*præſertim* Glóceſtriæ,) Hercyniæ (*ad montem* Iberg, *prope* Zellerfeld & Zorge,) Hennebergiæ (*in planitie* Buchebene,) Saxoniæ (*prope* Gilsdorf, Voigtsberg, Camsdorf, Scheibenberg, Marienberg, Schwarzenberg & Blankenburg,) Luſatiæ (*prope* Rengerdorf,) Marchiæ Brandenburgicæ (*prope* Kiſterniz,) Bohemiæ (*prope* Platte,) Moraviæ (*prope* Buttenwald,) Hungariæ (*prope* Suchodolina, Libeten, Ruſcowa, Stiavnicza, Roniz & Taiſolz,) Carinthiæ, Carnioliæ, Ilvæ, Brisgoviæ (*ad montem* Heuberg,) Sueviæ (*prope* Gindelwangen, Ahlen & Neuhauſen,) Wirtembergiæ (*prope* Neoburgum) & Naſſoviæ (*in* Siegenenſi & Dillenburgica *parte*) *fodinis*, *rariſſime cruſtæ inſtar alia foſſilia obducens*, *ſuperficie in-*

terdum iridis coloribus ludente aut argenticoloribus arbuſculis picta, fibris crebrius parallelis, quam faſciculatis vel ſtellatis, in feſtucas longas aut fragmenta cuneiformia, rarius in diſcoidea diſſiliens, intus interdum cavum, aut extrinſecus quartzo vel chalcedonio quaſi cortice obductum nunc in grana nunc in bacillos nunc in cruſtas ſecedens, rarius formæ communis, quam reniforme, botryoides, globoſum, ſtillaritium, fiſtuloſum aut arbuſculas referens, varietas rubra ſanguinis profluviis ſiſtendis, aliisque medicamentis, poliendis quoque metallis, potiſſimum ferro & chalybi inſerviens.

compactum. 22. F. intractabile compactum duriuſculum opacum, tritura rubra aut flava.

Cronſt. miner. §. 202. 203. 204. 2. 3. & 5. 1.

Waller. ſyſt. miner. p. 244. 246. 247. *n.* 10. 11. 12. Hæmatites ſolidus.

β) *Syſt. nat.* XII. 3. *p.* 141. *n.* 25. Ferrum (glomeratum) intractabile rubricans octaedro granulatum.

δ) *Syſt. nat.* XII. 3. *p.* 141. *n.* 24. Ferrum (arenoſum) intractabile nigrans, particulis granulatis opacis.

Habitat in Sibiriæ (*prope* Catharinenburg *aliisque*,) Lapponiæ (*prope* Jellivari,) Sueciæ (*prope* Grengie & *in monte* Taberg,) Hercyniæ (*prope* Rübeland,) Franconiæ (*prope* Naila & Suhl,) Thuringiæ (*prope* Saalfeld,) Saxoniæ (*prope* Camsdorf, Chemniz, Schneeberg, Eibenſtock & Johanngeorgenſtadt,) Variſciæ (e. gr. *prope* Schlaiz,) Luſatiæ (*prope* Wehrau,) Bohemiæ (*prope* Tœpliz,) Temeſiæ, Carnioliæ (*prope* Kumpell,) Tirolis, Wirtembergiæ (*prope* Heidenheim,) Helvetiæ (*in valle* Mühlrhal,) Italiæ, Navarræ (*prope* Baigory,) *electoratus* Trevirenſis (*prope* Herrhauſen,) Naſſoviæ *partis* Siegenenſis, Namurci *ſodinis*, *frequentius in grana ſecedens, interdum vagus, crebro in ſtratis aut venis obvius, quas integras conſtituit, nonnunquam aliis foſſilibus inſperſum, flavum, rubrum aut nigreſcens, texturæ nunc æqualis nunc inæqualis, formæ crebro communis, alias globuloſum, reniforme, ſtillatitium, fiſtuloſum, celluloſum aut veſtigiis hexaedro-pyramidalibus inæquale aut forma cryſtallorum frequentius adnatarum, quam liberarum, aggregatarum, quam ſolitariarum, rarius tetraedro-pyramidalium, quam cubicarum, quæ intus interdum cavæ & aqua repletæ, furno calido impoſitæ magno cum ſtrepitu diſſiliant.*

ſpatoſum. 23. F. intractabile lamelloſum effervefcens igne crepitans & nigreſcens, *in* fragmenta rhomboidalia diſſiliens.

Syſt. nat. I. *p.* 175. XII. 3. *p.* 141. *n.* 26. Ferrum intractabile albicans ſpatoſum.

Woltersd. miner. 31. Ferrum ſpatoſum colore gilvo ſ. badio.

Waller. miner. 244. *n.* 3. Minera ferri alba ſpatiformis.

Waller ſyſt. miner. 2. *p.* 251. *n.* 16. Ferrum calcareis lapidibus inhærens, minera alba vel fuſca, facie lapidea, ſine nitore, magnete non attractili.

Vogel. mineralſ. 167. Minera martis ſpatoſa.

Cronſt. miner. §. 30-33. Terra calcarea marte intime mixta.

β) *Waller. ſyſt. miner.* 2. *p.* 261. *n.* 24. Ochra ferri fuſca.

Habitat, interdum ſtrata ampliora & matricem aliarum minerarum conſtituens, in regno Tunetano, *in* Hiſpania, *in* Pyrenæis (*prope* Echaux, *inter* Sem & Lercoul, *etiam in comitatu* Ruſcinonenſi,) *in* Delphinatu (*prope* Allemont,) Alſatia (*prope* Rothau,) Pedemontio (*prope* Monaſtero,) *territorio* Bergamenſi & Breſciano,) Tiroli (*prope* Schroaz,) Salisburgo, Stiria (*prope* Schladming & Eiſenerz,) Carniolia (*prope* Jauberlig,) Carinthia (*prope* Hüttenberg, Auſtria (*prope* Reichenau,) Hungaria (*prope* Schemniz & Schmœlniz,) Sileſia, (*e. gr. prope* Creuzburg,) Bomia (*prope* Ratieborziz, Sckerſchann & Mayerhœfen,) Saxonia (*prope* Altenberg, Schneeberg, Freyberg, Bræunsdorf, Voigtsberg & Camsdorf,) Franconia (*prope* Neila & Lobenſtein,) Thuringia (*prope* Kœniz,) Haſſia (*prope* Schmalcalden & Wolzhauſen,) Naſſoviæ *parte* Saarbrückenſi, Weilburgenſi & *potiſſimum* Siegenenſi, Rheni *ripis* (e. gr. *prope* Benndorf, Wolfſtein, Obernhof, Wienar,) *Ducatu* Bergenſi (*in monte* Windberg,) Hercynia (*prope* Clausthal, Cellerfeld, Lautenthal, Stolberg,) *principatus* Anhaltini *parte* Bernburgenſi, Halberſtadio (*prope* Dankenrode, *in* Uplandia, Dalecarlia & *alias paſſim in* Suecia, *in* Cambria & Gloceſtria Angliæ, *in granas, rarius in cruſtas flexuoſas ſecedens, prunis inſperſum lucem ſpargens, acidis totum ſolvendum, frequentiſſime album, colore tamen ad aërem fugaci, alias canum, cæruleſcens, rufeſcens flavum, rubrum, fuſcum, nigricans, nigrum aut ad ſuperficiem iridis coloribus ludens, rarius fiſtuloſum, globoſum, celluloſum aut veſtigiis cubicis impreſſis conſpicuum aut prout prope Cremniz, fungiten figura referens, quam formæ communis aut cryſtallorum extrinſecus nitentium utplurimum aggregatarum, rarius pellucidarum, rarius*

pyramides triedras aut exiliſſimas tetraedras vel cubos, quam lentes puſillas, interdum roſæ petalorum inſtar aggregatas aut ſellæ inſtar curvatas, vel rhombos faciebus ſæpe convexis conſpicuos referentium, parando chalybi præ aliis ferri mineris conducens, ferri calce aëre fixo ſaturata, utplurimum quoque terræ calcariæ & magneſiæ calci juncta.

ſiliceum. 24. F. intractabile ſcintillans.
Cronſt. miner. §. 54. 1. & 65. Quartzum calce ferri atra intrinſece miſtum & Jaſpis martialis, Sinople.
Habitat in Palatinatus & Bipontinis, Hercyniæ (*prope* Rübeland,) Hungariæ (*prope* Schemniz & Bakabanya) *fodinis, in his ſæpe auriferum, ceterum ex ferri calce petroſilici, quartzo aut jaſpidi juncta conſtans, interdum quaſi eroſum.*

argillaceum. 25. F. molle opacum inconſpicuum ſiccum.
Cronſt. miner. §. 87. Bolus indurata particulis impalpabilibus.
Habitat in Italia, Wirtembergia, Naſſovia (e. gr. *prope* Siegen,) Franconia (e. gr. *prope* Neila,) Varncia, Saxonia (e. gr. *prope* Schneeberg, Chemniz & Schmiedefeld,) Luſatia (*prope* Wehrau,) Bohemia (*prope* Tœpliz,) Hungaria (*prope* Scalca) & Temeſia *nunc vagum nunc integra ſtrata conſtituens nunc formæ communis nunc foraminulentum & intus fiſtuloſum nunc celluloſum nunc lentes, renes, globulos, ſæpiſſime piſa æquantes referens, interdum ſchiſtoſum aut in cruſtas ſecedens, ex ferri calce & argilla compoſitum.*

Ochra. 26. F. intractabile inconſpicuum opacum friabile.
Waller. miner. 205. Ferri terra præcipitata non mineraliſata.
Cronſt. miner. §. 200. 1. 1. 1. Minera ferri calciformis friabilis.
α) *Syſt. nat.* I. *p.* 205. *n.* 1. XII. 3. *p.* 192. *n.* 1. *Muſ. Teſſin.* 106. Ochra ferri pulverea lutea.
It. Scan. 123. Ochra flava.
Woltersd. miner. 31. Ferrum terreum luteum friabile.
Waller. ſyſt. miner. 2. *p.* 258. Ferrum acido ſolutum & præcipitatum, colore flavo.
β) *Syſt. nat.* XII. 3. *p.* 192. *n.* 2. Ochra ferri pulverea rufa.
Waller. ſyſt. miner. 2. *p.* 259. *n.* 22. Ferrum acido corroſum rubrum.

Habitat frequens in aquis ferriferis, *in receptaculis, canalibus* e.c. *in fundum delabens, alias quoque in inſula* Celebes, Perſia, Sibiria (*ad fluvium* Jeſſchanska,) Penſilvania (*prope* Fahlun & *in* Scania,) Anglia, Seelandia, Namurcio, *reliquo* Belgio, *ducatu* Cliventi, *epiſcopatu* Oſnaprüggenſi, *electoratu* Trevirenſi, Hercynia (e. gr. *in monte* Rammelsberg,) Haſſia, Saxonia, Franconia (e. gr. *prope* Wonſiedel, Neila, Coburg, Norimbergam, Altdorf,) Carinthia (*prope* Hüttenberg & Frieſach,) Salisburgo, Alſatia. Helvetia, Italia (e. gr. *circa* Romam,) Hungaria (*prope* Schemniz & Stoos,) Tranſilvania (*prope* Gyaller,) Sileſia (e. gr. *prope* Sagan,) & Luſatia (*prope* Wehrau,) *rarius ſtellatim fibroſum, luteo rubrove colore crebro in fuſcum vergente, pictoribus uſu ſuo magis natum, quam fuſoribus.*

cæruleum. 27. F. intractabile friabile terreum inconſpicuum ad aërem cæruleum, igne fuſceſcens, a lixivio cauſtico colores mutans.

Cronſt. miner. §. 206. Calx martialis phlogiſto juncta & alcali præcipitata.

Waller. ſyſt. miner. 2. *p.* 260. *n.* 23. Ferrum ſolutum alcali præcipitatum & phlogiſto junctum cæruleum.

Habitat frequens ad fluvium Schadugna, *prope* Muran & *in aliis* Sibiriæ & Ruſſiæ *oris*, *in* Islandia, Norwegia, Scaniæ *planitiebus*, Scotiæ & Belgii *paludibus*, *in electoratu* Hannoverano (*prope* Maſchen,) *epiſcopatu* Hildeſienſi (*prope* Peinam,) Haſſia (*prope* Hirſchfeld,) Suevia (*prope* Babenhuſen,) Brisgovia (*prope* Herderen,) Carnioliæ *alpibus* Vacchinenſibus, Carinthia (*prope* Bleyberg,) Thuringia (*ad montem* Eckartsberg,) Luſatia (*prope* Doberich & Olbersdorf,) Sileſiæ (*prope* Beuthniz, Pathowiz, Dachenberg. Creuzburg & Niederleſchen) & Poloniæ (*prope* Cracoviam) *uliginibus, argillæ, turfæ, humo aut aliis ferri mineris innidulans, infra terram nonnunquam lacteum & ad aërem demum colorem cæleſtem ſmaltæ aut indicum aſſumens, ferri circiter* $\frac{1}{4}$ *argillæ arenæque miſtam continens, poſt uſtionem in igne magnetem ſequens, pigmenti loco* e. gr. Tungufis *inſerviens.*

ſmaltinum. 28 F. intractabile duriuſculum terreum opacum inconſpicuum cæruleum, a lixivio cauſtico colorem non mutans, igne cineraſcens.

Klaproth Schr. berl. Naturf. 10. *p.* 91.

Habitat in Hungaria *prope* Vorau, *una cum quartzo venam ¼-½ pollicis, gneiſſum micaceum album pererrantem conſtituens, cupri expers, jam in fodina cæruleum, candeſcendo cum cineribus clavellatis omnem colorem exuens, acidis non ſolvendum, cum borace in vitrum pellucidum dilute flavum, cum oſſium acido in vitrum coloris expers colliqueſcens, & ferri calce, terra aluminoſa & ſilicea conflatum.*

ſubaquoſum. 29. F. intractabile inconſpicuum opacum coloris obſcuri humidum.

Syſt. nat. I. *p.* 190. XII. 3. *p.* 187. *n.* 5. Tophus (Tubalcaini) humoſo ochraceus.

Cronſt. miner. §. 200. 1. 1. 2. Minera ferri calciformis.

Waller. ſyſt. miner. 2. *p.* 255. *n.* 19. Ferrum limoſum, minera fuſca, facie terreſtri vel ſcoriacea, ſubaquoſa.

α) polymorphum *Syſt. nat.* XII. 3. *p.* 187. *n.* 5. δ.

β) placentiforme *Syſt. nat.* XII. 3. *p.* 187. *n.* 5. γ.

γ) nummiforme *Syſt. nat.* XII. 3. *p.* 187. *n.* 5. β.

δ) globiforme. *Syſt. nat.* XII. 3. *p.* 187. *n.* 5. ε.

ε) globoſum. *Syſt. nat.* XII. 3. *p.* 188. *n.* 7. Tophus (globus) arenoſo-ferreus ſubrotundus.

ζ) grandiniforme. *Muſ. Teſſin.* 74. *n.* 8.

η) piſiforme. *Syſt. nat.* XII. 3. *p.* 187. *n.* 5. α.

θ) Aëtites.

Waller. ſyſt. miner. 2. *p.* 614. *n.* 2. Lithotomi cavitate latente, parietibus nudis donati.

a) *Syſt. nat.* I. *p.* 193. *n.* 3. XII. 3. *p.* 179. *n.* 1. *Muſ. Teſſin.* 78. *n.* 2. *Schreb. lith.* 97. Aëtites embryone libero terreſtri.

Imperat. hiſt. nat. 738. Aëtites geodes.

Waller. miner. 407. Aëtites terra incluſa.

b) *Syſt. nat.* I. *p.* 193. XII. 3. *p.* 179. *n.* 2. *Muſ. Teſſin.* 78. *n.* 1. *Gron. ſuppl.* 58. *n.* 1. 3. *Schreb. lith.* 99. Aëtites embryone libero lapilluloſo.

Imper. nat. 739. Aquilinus.

Waller. miner. 407. *n.* 1. Lithotomi cavitate latente donati.

ι) *Syſt. nat.* XII. 3. *p.* 187. *n.* 6. Tophus (Lithoxylon) ferreus ochraceus longitudinaliter enatus.

Habitat ſub aqua in Sibiriæ, Ruſſiæ (e. gr. Newa) *fluviis, in* Smolandia, Dalecarlia, Norlandia Sueciæ, *in* Belgio (*prope* Lugdunum,) Lotharingia (*prope* Dax, Val-S. Amarin &c.) Normannia, Britannia (*prope* Vitry,)

diſtrictu Turonenſi (*prope* Pouilly,) Franciæ *inſula* (e. gr. *prope* Genicours,) Burgundia, Alſatia, Helvetia, Wirtembergia, *reliqua* Suevia *comitatu* Salmenſi, *electoratu* Trevirenſi (*prope* Mardorf,) Hercynia (*prope* Ilefeld,) Haſſia, *circulo* Salico (*prope* Halam,) Variſcia, Bohemia, Luſatia (*prope* Tribel,) Sileſia (*prope* Wichelsdorf,) Hungaria, Tranſilvania (*prope* Reſchinar) *ex humo ferriferro, ut videtur, natum a phoſphori acido inhærente ferrum exhibens frigidum fragile utplurimum fuſcum, interdum rubrum, luteum, luteſcens, vireſcens, cæruleum, cinereum, ex calybeo atrum, nigrum, aut in ſuperficie variegatum, formæ communis, tum crebro foraminulentum, alias fiſtuloſum, orbiculare granorum, renis, globi magis minusve perfecti cavi vel ſolidi, majoris vel minoris ſpecie conſpicuum.*

viride. 30. F. coloris pſittacini, nitens.

Hoffmann bergm. Journ. II. 1. *p.* 397.

Habitat Schneebergee *aliis induratis ferri, wismuthi, niccoli cobaltique mineris inſidens, interdum tabulas referens, an ferrum muriæ acido junctum? an revera hujus generis?*

arſenicale. 31. F. canum opacum carbonibus injectum arſenici vaporem eructans.

Prouſt annal. de chim. I. *p.* 195.

Habitat in Hiſpaniæ *cuprifodina, plumbo cum arſenici acido juncto externo habitu ſimile, aqua & nitri acido, vel buliente non ſolvendum, & vaſis clauſis igni expoſitum liqueſcens quidem, ut tamen nullum vaporem emittat.*

ſulphuratum. 32. F. opacum prunis inſperſum vaporem flammamque ſulphuris emittens.

Syſt. nat. XII. 3. *p.* 116. *n.* 7. Pyrites (aquoſus) mineraliſatus lividus.

Cronſt. miner. §. 152. Pyrites colore rubeſcente.

Waller. miner. 210. *ſyſt. miner.* 2. *p.* 133. *n.* 7. Sulphur ferro mineraliſatum, minera fuſca vel hepatica.

Habitat in Sueciæ, Saxoniæ, Hercyniæ, Rhenanis *fodinis variis, creberrime fuſcum, interdum dilutius, aut coloris inter aurichalceum & calybeum intermedii, aut chalybei, aut in ſuperficie variegati, in grana utplurimum ſecedens, formæ creberrime communis, nonnunquam celluloſum, pectinatum, ſulcis decuſſantibus in ſuper-*

ſicie inſignitum, arbuſculas referens, fiſtuloſum, botryoides, reniforme, ſtilatitium, globoſum aut forma cryſtallorum tabulas exaedras crebro in globos coagmentatas, aut priſmata exaedra, frequentiſſime cubos in cellulas aut ſeries aggregatos referentium conſpicuum.

phlogiſticum. 33. F. opacum coloris obſcuri in igne ardens.
Cronſt. miner. §. 160. 6. 2. Minera ferri phlogiſtica.
Habitat in Hungaria (*prope* Schemniz, *hic auri argentique ferax*,) & Suecia (*in montibus* Waſchberg & Finnberg, *etiam in* Nericia) *lithanthracem externo habitu referens, nunc friabile nunc firmius cohærens, alias fixum, cito & cum levi flamma exardeſcens, pauxillum ponderis amittens, & ultra* $\frac{30}{100}$ *ferri ſæpe continens, alias ſub fornice docimaſtica totum fere avolans, perparum modo calcis ferreæ relinquendo.*

86. ARSENICUM. Fragile, coloris plumbei, cum nitore tamen fugacis, ponderis ſpecifici = 8308.1000.

o=o

Carbonibus inſperſum ſpecie fumi albi album quodammodo redolentis ſapore dulciuſculi avolans.

Calce alba, aqua ſolubili, acidi nitri ope acidum verum ſui generis evolvente.

nativum. 1. A. nudum nitoris metallici.
Cronſt. miner. §. 237. Arſenicum nativum.

teſtaceum. *a*) A. in cruſtas ſphæricas ſecedens.
Syſt. nat. I. *p.* 170. *n.* 5. XII. 3. *p.* 117. *n.* 1. Arſenicum nudum, fragmentis convexis concaviſque albidis.
Cronſt. miner. §. 237. 1. Arſenicum nativum particulis impalpabilibus teſtaceum.
Waller. miner. 217. Arſenicum ferro mineraliſatum teſtaceum.
Waller. ſyſt. miner. 2. *p.* 162. *n.* 3. Arſenicum nativum forma metallica teſtaceum.

Vog. miner. 294. *Gerſn. cadm.* 19. *n.* 29. Cobaltum teſtaceum.

Juſt. miner. 180. Scherbencobald.

ſquamoſum. β) A. particulis micaceis. *Cronſt. miner.* §. 237. 2. *Syſt. nat.* XII. 3. *p.* 117. *n.* 2.

poroſum. γ) A. friabile & poroſum. *Cronſt. miner.* §. 237. 3. *Syſt. nat.* XII. 3. *p.* 117. *n.* 3.

Waller. ſyſt. miner. 2. *p.* 161. *n.* 2. Arſenicum nativum forma metallica nigrum.

a) faciebus ſpeculi inſtar nitentibus.

Cronſt. miner. §. 237. 3. 1.

Habitat in Norwegia (*prope* Kongsberg,) Hercynia (*prope* Andreasberg,) Alſatia (*prope fanum* S. mariæ,) Wirtembergia (*prope* Alpirſpacum,) Fürſtenbergia (*prope* Wittichen,) Carinthia (*prope* Seltſchach & Geisberg,) Tranſilvania (*prope* Nagyag,) Bohemia (*prope* Joachimsthal,) & Saxonia (*potiſſimum prope* Annaberg & Freyberg,) *ſpato, barytidi, feldſpato ſæpe innidulans, galenæ, arſenici argentique minerarum frequens comes, duro corpori allidens ſonitum edens, cultro ſecandum, vix ferro carens, interdum cobaltum, rarius wismuthum, argentumve ſibi immixtum habens, rarius fibroſum, quam minutim lamelloſum, interdum* γ) *poroſum & quaſi eroſum, faciebus* γ a) *ſpeculi inſtar nitentibus aut concavis aut convexis conſpicuum, haud raro reniforme.*

calciforme. 2. A. album, aqua ſolubile.

Cronſt. miner. §. 238. 2. 1. Calx arſenici nativa pura.

Waller. ſyſt. miner. 2. *p.* 160. *n.* 1. Arſenicum nativum album ſalino-calcareum.

α) farinaceum.

Cronſt. miner. §. 238. 2. 1. 1.

Waller. ſyſt. miner. 2. *p.* 160. *n.* 1. a.

β) cryſtalliſatum.

Syſt. nat. XII. 3. *p.* 117. *n.* 1. *Cartheuſ. miner.* 57. Arſenicum nudum cryſtallinum purum.

Cronſt. miner. §. 238. 2. 1. 2.

Waller. ſyſt. miner. 2. *p.* 160. *n.* 1. b.

γ) terra immiſtum.

Waller. ſyſt. miner. 2. *p.* 169. *n.* 10. Arſenicum terra mineraliſatum.

Habitat in Hercyniæ (*prope* Andreasberg,) Saxoniæ (e. gr. *prope* Cleshubel,) Bohemia (*prope* Joachimsthal,) Hungariæ (*prope* Schmœlniz) *argentifodinis, nativo rarius,*

aliis arſenici mineris inſidens, pyramides (β) interdum tetraëdras duplices referens.

Auripig- 3. A. ponderoſum flavum incurve lamelloſum, nitoris intus
mentum. cerei, igné agitatum multam ſui partem relinquens.
Syſt. nat. I. *p.* 169. *n.* 2. XII. 3. *p.* 113. *n.* 2. Pyrites nudus flavus micis auratis. ♎ o-o.
Waller. miner. 226. Arſenicum ſulphure, lapide ſpatoſo & micaceo mineraliſatum, minera flaveſcente.
Waller, ſyſt. miner. 2. *p.* 163. *n.* 5. Arſenicum nativum ſulphure mixtum planis micans flavum.
Woltersd. miner. 28. Arſenicum luteum lamellatum micaceum.
Cronſt. miner. §. 239. 2. I. I. Calx arſenici ſulphure mixta flava.
Habitat in Hungaria (*prope* Felſobanya & Neuſol,) Walachia, Buckowina, Georgia (*prope* Gumiſchcana,) Natolia & *reliquo* Oriente, *diaphanum*, *formæ communis ſandaraca difficilius igne liqueſcens*, *igne leniori rubeſcens*, *fortiori arſenici fumum ſulphurisque flammulam eructans pictoribus*, *atramento ſympathetico*, *liquori vini probatorio Turcis parando*, *quod vocant Rusma inſerviens*, *ex arſenici calce*, *ſulphure & tertia adhuc incognita parte conflatum.*

Sandaraca. 4. A. ſubponderoſum rutilum tritura aurantia recte lamel-
Rauſchgelb. loſum igne agitatum facile liqueſcens & fumi arſenicalis albi & flammulæ ſulphureæ ſpecie avolans.
Syſt. nat. I. *p.* 170. *n.* 2. XII. 3. *p.* 117. *n.* 4. Arſenicum nudum rubrum ♎.
Waller. miner. 224. *ſyſt. miner.* 2. *p.* 163. *n.* 4. Arſenicum nativum ſulphure mixtum rubrum.
Woltersd. miner. 28. Arſenicum rubrum.
Cronſt. miner. §. 239. 2. I. 2. Calx arſenici ſulphure mixta rubra.
Habitat in Siciliæ (*etiam prope* Cataldo,) & *regni* Neapolitani (*ad* Veſuvium & Solſataram) *montibus ignivomis*, *eorumque vicinia*, *in* Hungariæ (*prope* Schemniz, Tajoba & Felſobanya,) Tranſilvaniæ (*prope* Nagyag,) Bohemiæ (*prope* Joachimsthal,) Saxoniæ, Hercyniæ (*prope* Andreasberg,) Bipontii *fodinis*, *etiam in* Japoniæ *inſula* Ximeo (*prope* Mungo,) *auroræ colore tinctum vel coccineum*, *in grana ſecedens nunc ſuperficiale nunc quartzo*, *barytidi*, *fluori*, *argillæ*, *arenario*, *lavæ*,

lavæ, bitumini, creberrime arſenico nativo inſperſum, opacum, ſubopacum, diaphanum, ſemipellucidum aut pellucidum, rarius forma cryſtallorum conſpicuum.

ſulphuratum. Rauſch-gelbkies. 5. A. nitoris metallici ex cinereo cæruleſcens durum, igne agitatum fumum arſenici album flammulamque ſulphuris cæruleam eructans.

Syſt. nat. I. *p.* 170. *n.* 7. XII. 3. *p.* 118. *n.* 5. Arſenicum mineraliſatum cinereo-cæruleſcens micans. ♆ ♂.

Cronſt. miner. §. 241. 3. 1. Arſenicum ferro ſulphurato mineraliſatum.

Cartheuſ. miner. 58. Arſenicum mineraliſatum informe, particulis planis albis nitidis.

Waller. ſyſt. miner. 2. *p.* 167. *n.* 8. Arſenicum ſulphure & ferro mineraliſatum, minera difformi, granulis cinereo-cæruleſcentibus, micante.

β) *Waller. ſyſt. miner.* 2. *p.* 168. *n.* 9. Arſenicum pyrite ſulphureo mineraliſatum ſolidum flaveſcens.

Habitat in Sueciæ (*prope* Tavaſtehas, Loſå, Talberg,) *interdum mollius, creberrime durum, ut ad chalybem ſcintillas edat arſenicum dentes, ad aërem nitorem metallicum cito exuens, igne agitatum ſandaracam exhibens, texturæ inæqualis utplurimum granularis, rarius lamelloſæ aut radiatæ.*

albicans. Miſpickel. 6. A. nitoris & coloris ſtannei durum igne agitatum arſenici fumum album eructans.

Syſt. nat. I. 174. XII. 3. *p.* 118. *n.* 6. Arſenicum mineraliſatum, fragmentis planis nitidis ♂.

Waller. miner. 227. Arſenicum ferro mineraliſatum, minera albeſcente teſſulis & planis micante.

Wall. ſyſt. miner. 2. *p.* 165. *n.* 6. Arſenicum ferro mineraliſatum, minera albeſcente granulis vel planis micante.

Cronſt. miner. §. 241. 3. 2. Arſenicum metalliforme ferro mixtum.

Woltersd. miner. 28. Arſenicum albicans ſplendens.

Juſt. miner. 181. Miſpickel.

β) *Waller. ſyſt. miner.* 2. *p.* 166. *n.* 7. Arſenicum ferro mineraliſatum, minera albeſcente cryſtalliſatum.

Cronſt. miner. §. 241. 3. 2. 3. Arſenicum metalliforme ferro mixtum cryſtalliſatum.

a) pyramidibus tetraedris duplicibus.

Syſt. nat. I. *p.* 170. *n.* 3. XII. 3. *p.* 118. *n.* 7. Arſenicum (cryſtallinum) mineraliſatum cryſtalliſatum octaedrum nigricans. ♂.

Waller. miner. 218. Arſenicum ferro mineraliſatum, minera teſſulari livido-nigra.

b) priſmatibus tetraedris obliquangulis.

Syſt. nat. XII. 3. *p.* 118. *n.* 8. Arſenicum (cubicum), mineraliſatum cryſtalliſatum cubicum.

Habitat in Cornubiæ, Pyrenæorum (*prope* Ouillere & Lanoucadé,) Fürſtenbergiæ (*prope* Wittichen, Salisburgi,) Stiriæ (*prope* Schladming,) Bohemiæ, Sileſiæ (*prope* Kupferberg & Rudolſtadt,) Saxoniæ (*prope* Altenberg, Ehrenfriedersdorf, Schneeberg, Hohenſtein & Freyberg,) Thuringiæ (*prope* Sangerhauſen,) Hercyniæ & (*prope* Salberg, Dannemora, Uto, Riddarhytta, *monte argenteo occidentali*) Sueciæ *fodinis, ſtanni mineris ſæpe ſubtiliſſime inſperſa in grana, rarius in bacillos ſecedens, in argenti colorem non raro vergens, nitoris tenacius, quam ſulphuratum, igne vaſis clauſis agitatum arſenicum album præbens, ſuperficie interdum ſulcis decuſſatis exarata, aut arbuſculis nigris picta, formæ utplurimum communis, rarius rotundatæ, aut cryſtallorum aggregatarum.*

argentiferum. 7. A. nitoris argentei texturæ ſubtiliſſime granularis in grana ſecedens, igne agitatum arſenici fumum & cum plumbo fuſum argenti granum exhibens.

Syſt. nat. XII. 3. *p.* 150. *n.* 7. Argentum (arſenicale) mineraliſatum arſeniciale ○○, ♂.

Cronſt. miner. §. 171. Argentum ferro & arſenico ſulphurato mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 340. *n.* 10. Argentum arſenico, ſulphure & ferro mineraliſatum, minera albo colore nitente.

Habitat in Saxoniæ (*prope* Bræunsdorf & Freyberg,) Bohemiæ (*prope* Ratieborziz,) Salisburgi (*in cuniculo S. Floriani,*) & Stiriæ (*prope* Schladming) *fodinis, ex arſenico, ſulphure, ferro, & pauciſſimo argento conflatum.*

87. CUPRUM. ♀ Ductile, malleabile, rubrum, elaſticum, durum, ſonorum, ponderis ſpecifici = 8876. 1000.

Æruginem facile contrahens; acidis natro, oleis colore cæruleo aut viridi, ipſo ſulphure facile ſolvendum.

Igne difficilius fluens, & liquatum, aquæ infuſum maxima cum violentia diſſiliens, antequam cendat, vivaciſſimis coloribus ludens, diuturno igne in calcem ſpadiceum abiens, vitrum viridi colore tingens.

nativum. 1. C. nudum nitoris metallici.

Syſt. nat. I. *p.* 178. *n.* 1. Cuprum nudum mineræ inhærens.

Syſt. nat. XII. 3. *p.* 143. *n.* 2. Cuprum nudum mineræ inhærens.

Cartheuſ. miner. 69. Cuprum nudum malleabile.

Waller. ſyſt. miner. 2. *p* 274. *n.* 1. *Cronſt. miner.* §. 191. 1. Cuprum nativum.

præcipitatum. β) C. præcipitatum ſupra ferrum arenoſo coaleſcens.

Syſt. nat. I. *p.* 178. *n.* 3. *Gronov. ſuppl.* 12. Cuprum præcipitatum.

Waller. miner. 277. *ſyſt. miner.* 2. *p.* 275. *n.* 2. Cuprum purum ex ſolutione vitriolica præcipitatum.

cryſtallinum. γ) C. cryſtalliſatum octaedrum. *Syſt. nat.* I. *p.* 178. *n.* 2. XII. 3. *p.* 143. *n.* 3 *Muſ. Teſſin.* 60. (Fig. 23.)

Habitat in cupri *inſula ad littus* Camtſchatcæ *orientale, in* Sibiria e. gr. *in montium altaicorum fodina* Loctewskenſi, (*prope* Calan, Umba, Konzoſer, *& ad montem* Schlangenberg,) *in* Islandia *& inſulis* Feroe, *in* Sueciæ (*prope* Norberg, Sunnerskog, Fahlun, Riddarhytta, *fodina* Heslekulle,) Turingiæ (*prope* Islebam, Blankenburg, & Saalfeld,) Saxoniæ (*prope* Camsdorf, Freyberg, Annaberg, Marienberg, Bærenſtein, Raſchau, Johanngeorgenſtadt,) Bohemiæ (*prope* Grasliz & Catharinenburg,) Temeſiæ (*e. gr. prope* Saska & Moldawa,) Tranſilvaniæ

(*prope* Decca,) Hungariæ (*prope* Kapnik, Laposbanya, Rudnobania, Misbanya, Illowa, Schmoelniz,) Auſtriæ (*prope* Spiz,) Carinthiæ (*prope* Fragant,) Tirolis (*prope* Schwaz,) Sueviæ (*prope* Alpiſſpacum & Ripoltsau,) Rhenanis (*prope* Rheinbreidenbach,) *in* Galliæ (Haux Pyrenæorum, Baygory Navarræ, & Choinée Lugdunenſis,) Cornubiæ (*prope* Redruth & Wheal-Spernon,) Hetruriæ (*prope* Paris) *fodinis etiam in faſtigio montis* Mutinenſis Modino, *texturæ uncinatæ, interdum granulatæ rarius lamelloſæ, ponderoſum, malleabile, rubrum ſuperficie interdum æruginoſa aut nigra, flava, fuſca variegata, interdum ſuperficiale, formæ utplurimum communis, verum quoque botryoides, capillare, filiforme, fruticulas, arbuſculas, dentes, cryſtallosve exiles referens, nunc cubicas, interdum in uvæ ſpeciem nunc pyramides tetraedras duplices, interdum in ramos aut gemmæ ſpeciem aggregatus.*

lateritium. 2. C. rubrum molle nitoris metallici expers.

Syſt. nat. XII. 3. *p.* 193. *n.* 6. Ochra (cyprii) cupri vitrati pulverea obſcure ferruginea.

Cronſt. miner. §. 192. 2. 1. 1. 3. Minera cupri calciformis pura rubra.

Waller. ſyſt. miner. 2. *p.* 290. *n.* 36. Cuprum corroſum & ſolutum a mineris cupri deſtructis, præcipitatum rubrum.

Habitat in Saxoniæ (*prope* Camsdorf) & Temeſiæ *fodinis, in igne decrepitans & nigreſcens, acidis & natro volatili fere totum ſolvendum, fuſione cupri ultra dimidium ſui ponderis exhibens, texturæ utplurimum terreæ, rarius imperfecte conchaceæ, ſæpius cruſtæ inſtar alia foſſilia obducens.*

rubrum. 3. C. obſcure rubrum duriuſculum nitoris metallici expers.

Syſt. nat. XII. 3. *p.* 145. *n.* 9. Cuprum rubrum ochraceo-induratum.

Cronſt. miner. §. 193. Minera cupri calciformis pura & indurata, colore rubro.

Waller. ſyſt. miner. 2. *p.* 276. 277. *n.* 3. a. Cuprum minera ſolida, colore rubro mineraliſatum.

Habitat in Indiæ, Sibiriæ (*ad montes* altaicos, Schlangenberg, Uralenſes, *præſertim* gumeſchewkenſibus,) Norwegiæ (*prope* Ordal,) Cornubiæ, Saxoniæ (*prope* Camsdorf & Freyberg,) Franconiæ (*prope* Naila,) Renanis (*prope* Rheinbreidenbach,) Temeſiæ (*prope* Saska, Dognaska, Oravitza, Moldava & Neumoldawa;) *hinc inde in*

ſtatuis ſolidis ex cupro fabrefactis paſſim diffractis, ex 100 *libris ad* 70 *cupri præbens, acidis & natro volatili fere totum ſolvendum, in igne decrepitans, & nigreſcens, nunc compactum, nunc lamelloſum, colore utplurimum coccionellam æmulans, interdum kermeſino aut obſcurius rubro* (mordoreroth,) *forma ſæpius communi, interdum ſtillatitia, aut cryſtallorum, utplurimum aggregatarum & nitentium, ſæpe diaphanarum & in igne omnem pelluciditatem exuentium, rarius cubos aut rhombos, aut priſmata tetraedra, aut pyramides triedras, aut duplices truncatas hexaederas, quam duplices tetraedras, aut priſmata hexaedra, interdum utrinque pyramide hexaedra terminata, nonnunquam capillaria, & tunc interdum ſtellatim aggregata referentium.*

hepaticum. 4. C. fuſcum molle nitoris metallici expers.

Waller. ſyſt. miner. 2. *p.* 276. *n.* 3. b. c. Cuprum minera ſolida colore hepatico, mineraliſatum.

β) *Waller. ſyſt. miner.* 2. *p.* 338. *n.* 8. Argentum ſulphure, arſenico & antimonio mineraliſatum, minera fuſca.

Cronſt. miner. §. 172. 5. 1. Argentum antimonio ſulphurato mineraliſatum.

Habitat, creberrime cum cupro rubro, in Sueciæ (*prope* Fahlun) Saxoniæ (*prope* Camsdorf,) Thuringiæ (*prope* Saalfeld,) *rhenanis* (*prope* Mehlbach,) Wirtembergiæ (*prope* Dornſtentten,) Tyrolis (*prope* Schwaz,) Auſtriæ (*prope* Reichenau & Granigberg) & Temeſiæ (e. gr. *prope* Saska,) β) *pauxillum argenti imixtum continens, in* Stiriæ (*prope* Schladming,) Saxoniæ (*prope* Freyberg & *præſertim prope* Bræunsdorf,) & Hercyniæ (*prope* Blankenburg) *fodinis, ex cineraſcente flavicante aut rubro fuſcum, nunc pulverulentum aut friabile intus terreum, nunc induratum & ſæpius compactum, interdum in cruſtas concentricas ſecedens aut ſtillatitium.*

Piceum. 5. C. atrum duriuſculum nitoris metallici expers.

Waller. ſyſt. miner. 2. *p.* 280. *n.* 6. Cuprum ferro & pauxillo ſulphuris mineraliſatum, minera nitente nigra.

Habitat in Hercyniæ (*prope* Lauterberg,) Auſtriæ (*prope* Spiz) & Temeſiæ *fodinis, texturæ modo lamelloſæ, modo imperfecte conchaceæ, ferro ſemper gravidum, ex* 100 *libris* 7–8 *cupri continens.*

fuligino- 6. C. nigrum ſuperficiale.
ſum. *Waller. ſyſt. miner.* 2. *p.* 291. *n.* 17. Cuprum corroſum & ſolutum, a mineris cupri deſtructis, præcipitatum nigrum.
Cronſt. miner. §. 194. 2. 1. 2. Ochra cupri impura friabilis ferro mixta.
Habitat in Hungariæ, Saxoniæ (*prope* Freyberg,) & Sueciæ (*prope* Fahlun) *fodinis*, *cupro fulvo fatiſcenti inſidens*, *ferri calcis partem continens.*

cæruleum. 7. C. molle nitoris metallici expers ab acidis colorem cæleſtem in viridem mutans & ſine efferveſcentia in his ſolvendum.
Syſt. nat. I. *p.* 205. XII. 3. *p.* 192. *n.* 4. Ochra cupri pulverea cærulea.
Cartheuſ. miner. 70. Cuprum corroſum cæruleum terreſtre.
Waller. miner. 280. *n.* 1. Cuprum ſolutum præcipitatum cæruleum.
Waller. ſyſt. miner. 2. *p.* 289. *n.* 15. Cuprum corroſum & ſolutum a mineris deſtructis præcipitatum cæruleum.

Armenus. β) C. cæruleum calcarium. *Syſt. nat.* XII. 3. *p.* 146. *n.* 14. *Vog. miner.* 111. *Baum. miner.* 1. *p.* 184. Lapis armenus.
Cronſt. miner. §. 35. 2. 1. & §. 194. 2. 2. 3.
Waller. ſyſt. miner. 2. *p.* 289. *n.* 15. f. Cæruleum montanum lapidi calcareo ſenſibiliter miſtum.
Habitat in Oriente, Armenia, Sibiria, Hungaria, Europa *auſtrali*, *electoratu* Trevirenſi (*in* Langenheke,) Haſſiæ (*prope* Thalitter,) Saxoniæ (*prope* Camsdorf,) Cornubiæ, *fodinis*, *interdum in viridem colorem vergens*, *ſæpe friabile & terreum*, *pigmento inſerviens*, *ſæpe* (*prope* Thalitter) *margæ ſchyſtoſæ*, *aut* (β) *marmori inſperſum.*

Cuprigo. 8. C. nitoris metallici expers ab acidis colorem cæruleum in viridem mutans, & totum cum efferveſcentia in his ſolvendum.
Syſt. nat. XII. 3. *p.* 194. *n.* 12. *Muſ. Teſſin.* 108. Ochra (Cuprigo) cupri germinans cærulea.
Coſt. foſſil. 105. Ochra ponderoſa elegantiſſime cærulea.
Cronſt. miner. §. 34 2. Terra calcarea croco ſeu calce veneris intime mixta. & §. 194. 2. 1. Ochra veneris terra calcarea mixta.
Woltersd. miner. 30. Cuprum cæruleum plumoſum.
Habitat in Permiæ *aliarumque* Sibiriæ *partium*, Lapponiæ (*prope* Ruſſe nike) Sueciæ (*prope* Sunnarskog,) Saxoniæ (*prope* Schneeberg, Fryeberg & Camsdorf,) Thuringiæ (*prope* Saalfeld,) Hercyniæ (*prope* Cellerfeld,) Weſt-

phaliæ (*prope* Stadtbergen,) rhenanis (Langenhecke, *prope* Wolfſtein, Moſchellandsberg, Caudebach & *in monte* Stahlberg,) *in* Alſatiæ, Lotharingiæ, Occitaniæ, Pyrenæorum (*ad montem* Bere & *prope* Loubie,) *in provinciæ* Lugdunenſis (*prope* S. Bel,) *ad* Siciliæ (*in monte* Niſo,) Hetruriæ (*prope* Maſſa di Marrema,) Wirtembergiæ (*prope* Bulach,) Tirolis (*prope* Thierberg, & Schwaz,) Hungariæ (*prope* Neuſol) & *potiſſimum* Temeſiæ *fodinis*, *pigmento cæruleo eximie inſerviens, in grana, rarius in cruſtas ſecedens, nunc ſuperficiale aliis cupri mineris inſidens, nunc majoribus minoribusve partibus aliis foſſilibus inſperſum, colore azureo, ſmaltæ aut cæleſti, modo pulverulentum, modo friabile intus terreum, inconſpicuum formæ communis aut botryoidis, modo duriuſculum rarius inconſpicuum & intus terreum, quam nitens texturæ radiatæ forma ſæpius communi interdum cryſtallorum, in agmen globuli, gemmæ, uvæ, faſciculi, ſtellæ ſpeciem aggregatorum, modo lentes quadrangulas, modo priſmata tetraedra rectangula vel obliquangula, nonnunquam pyramide tetraedra terminata referentium.*

viride. 9. C. dilute æruginoſum acidis ſine efferveſcentia, ſolvendum, a natro volatili colorem viridem in cæruleum mutans inconſpicuum texturæ conchaceæ.

Habitat in Sibiriæ (*prope* Catharinenburg,) Saxoniæ (*prope* Camsdorf,) & Thuringiæ (*prope* Saalfeld) *fodinis, opacum, igne nigreſcens, nunc ſuperficiale, nunc aliis foſſilibus innidulans formæ communis, botryoides aut reniforme.*

argilloſum. 10. C. molle viride intus nitens texturæ conchaceæ.

Renovanz Nachr. v. altaiſch. Gebirg. p. 53.

Habitat in montibus Sibiriæ altaicis, *ab argilla inhærente linguæ adhærens, lætius aut obſcurius viride, vel gramineum, gypſi inſtar, ſectile,* 24–30 *libras cupri ex* 100 *exhibens, an diſtincta ſpecies?*

talcoſum. 11. C. thalaſſinum molliſſimum inquinans nitens.

Renovanz Nachr. v. altaiſch. Geb. p. 51.

Habitat in montium altaicorum *fodinis* loktewskenſibus, *minerarum argillarumque metalliferarum foveolis inhærens, talci miculas immixtas habens, nonnunquam pallidius, hinc inde metalli inſtar nitens aut diaphanum nunc lamelloſum, nunc ſtellatim fibroſum.*

Ærugo. 12. C. viride adfuſo natro volatili cæruleum tinctum adſciſdens acidis cum effervefcentia ſolvendum opacum nitoris metallici expers.

Waller. miner. 278. *ſyſt. miner.* 2. *p.* 286. *n.* 14. Cuprum corroſum & ſolutum, a mineris deſtructis præcipitatum viride.

æris. α) *Syſt. nat.* I. 205. XII. 3. *p.* 192. *n.* 3. Ochra (æris) cupri pulverea viridis.

Coſt. foſſil. 100. Ochra viridis, Chryſocolla ſ. Viride montanum.

Cartheuſ. miner. 70. Cuprum arroſum viride terreſtre.

Cronſt. miner. §. 192. 2. 1. 1. 2. Minera cupri calciformis pura viridis.

Malachites β) *Syſt. nat.* I. *p.* 179. *n.* 7. Cuprum viride.

Syſt. nat. XII. 3. *p.* 146. *n.* 15. Cuprum viride gypſeum.

Woltersd. min. 30. cuprum viride plumoſum compactum polituram admittens.

Carth. miner. 69. Cuprum arroſum viride durum glabrum nitens.

Cronſt. miner. §. 36. Terra gypſea venere mixta & §. 194. 2. 2. 1. Minera cupri calciformis impura indurata gypſo mixta.

Vog. miner. 183. Malachites.

Ærugo. γ) *Syſt. nat.* I. *p.* 205. *n.* 4. XII. 3. *p.* 194. *n.* 11. Ochra cupri germinans viridis.

Cartheuſ. miner. 30. Cuprum arroſum viride ſtriatum.

Woltersd. miner. 30. Cuprum viride plumoſum.

Habitat in Africæ (*regni* Congo,) Sibiriæ (*prope* Catharinenburg,) Temeſiæ (*præſertim prope* Moldawa,) Hungariæ (*prope* Risbanya,) Tirolis (*prope* Schwaz,) Wirtembergiæ (*prope* Bulach,) Haſſiæ (*prope* Thalitter,) Weſtphaliæ (*prope* Sadtbergen,) Naſſoviæ (*prope* Siegen, Dillenburg, Weilmünſter,) Hercyniæ (*prope* Cellerfeld,) Thuringiæ (*prope* Saalfeld,) Saxoniæ (*prope* Camsdorf, Freyberg, Boeſenbrunn, Oberſchlema,) Angliæ (*prope* Aldarby, & Middleton, *comitatus* Ruſcinonenſis, & Herruriæ (*prope* Maſſa di Maremna) *fodinis, quartam ad dimidium uſque partem aëris fixi continens, igne nigreſcens, in grana aut cruſtas, interdum valde incurvas ſecedens, intus radiatum, fibroſum aut compactum, texturæ planæ, terreæ aut imperfecte conchaceæ, (tunc egregiam polituram admittens* Malachites,) *duriuſculum, rarius friabile, utplurimum obſcure gramineum, nonnunquam coloris inter gramineum & pomaceum, vel*

pomaceum & æruginoſum intermedii, ſuperficiale, aut minoribus majoribusve partibus aliis foſſilibus inſperſum, forma communi, renum globorum, clavarum aut cryſtallorum acicularium vel capillarium ſericeo nitore conſpicuarum, interdum diaphanarum, ſtellatim, faſciculatim, in uvæ, renis, globi ſpeciem aggregatarum.

ferruginoſum. 13. C. olivacei coloris ab adfuſo natro volatili in cæruleum abeuntis nitoris metallici expers.

Karſt. Leſk. Mineralkab. 1. *p.* 425. Cuprum ochraceum ferruginoſum.

Habitat nunc obſcurius aut coloris in porraceum vergentis, & tunc intus nitens & texturæ conchaceæ, in Saxoniæ (*prope* Camsdorf,) *nunc coloris altioris ad pſittacinum accedentis, intus terreum & ſine nitore in* Thuringiæ (*prope* Saalfeld) & Hercyniæ (*prope* Lauterberg) *fodinis, ferreæ calcis multum continens.*

arſenicale. 14. C. exolete olivacei coloris ab adfuſo natro volatili in cæruleum abeuntis, in vaſis clauſis igni expoſitum nullum, in carbone arſenici fumum eructans, & cuprum ductile relinquens.

Klaproth Schr. berl. Naturf. 7. *p.* 160.

Habitat in Sileſia (*prope* Jonsbach) & Cornubia (*prope* Carrarach,) *cryſtallis hexaedro-priſmaticis pyramide hexaedra terminatis, aut acicularibus, ſolitariis vel faſciculatim ſtellatimve aggregatis, arſenici acidum continens.*

teſſellatum. 15. C. obſcure viride igni expoſitum arſenici fumum eructans, cryſtallis nitidis exilibus cubicis aggregatis.

Klaproth Schr. berl. Naturf. Geſ. 7. *p.* 160.

Habitat in Cornubia (*prope* Carrarach) *quartzi cryſtallis innidulans, igne intumeſcens, & tardius, quam arſenicale, cupri granum exhibens, præter arſenicum ferri portionem continens.*

albidum. Weiſserz. 16. C. duriuſculum albidum metallice nitens in igne arſenici fumum eructans.

Syſt. nat. XII. 3. *p.* 145. *n.* 8. Cuprum mineraliſatum arſenicale album. c∞o, 🜍, ♂.

Cronſt. mineral. §. 197. Cuprum ferro & arſenico ſulphurato mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 280. *n.* 7. Cuprum arſenico & ferro mineraliſatum, minera albeſcente.

Habitat ſequentibus ſpeciebus rarius, una cum aliis cupri mineris in Sibiriæ (*prope* Catharinenburg,) Temeſiæ, Hungariæ (*prope* Schemniz & Herrengrund,) Sabaudiæ, Franconiæ (*prope* Cronach,) Saxoniæ (*prope* Freyberg,) Haſſiæ (*prope* Frankenberg,) Hercyniæ, Angliæ (*prope* Middleton Lyas) *fodinis, minoribus particulis majoribusve fruſtis aliis foſſilibus inſperſum, coloris ſtannei aut argentei interdum in aureum vergentis, forma utplurimum communi, rarius pyramidis duplicis tetraedræ, præter cuprum, ferrum, arſenicum & ſulphur, inſperſum quoque, verum rarius, argentum nativum continens.*

purpureum. 17. C. duriuſculum metallice nitens fragile rubrum aut cæruleum.

Syſt. nat. I. p. 178. *n.* 5. Cuprum purpuraſcens.

Syſt. nat. XII. 3. *p.* 144 *n.* 5. Cuprum mineraliſatum pyriticoſum rubro azureum durum.

Gronov. ſuppl. 12. *n.* 14-28. Cuprum violaceum.

Woltersd. miner. 30 Cuprum nigricans ſplendens plerumque violaceum.

Waller. miner. 281. 282. Cuprum mineraliſatum, minera fractura nitente fragili.

Waller. ſyſt. miner. 2. *p.* 278. *n.* 5. Cuprum ſulphure & ferro parce admixtis mineraliſatum, minera ſolida nitente violacea vel cæruleſcente fragili.

Cartheuſ. miner. 70. Cuprum arroſum cæruleum durum glabrum nitens.

Cronſt. miner. §. 196. 2. 2. Minera cupri lazurea.

Habitat utplurimum una cum aliis cupri mineris in America *ſeptentrionali* (Newyerſey,) Sibiria (*prope* Catharinenburg, & *ad lacum* Onega,) Lapponia (*prope* Swappawari,) Norwegia (*prope* Ordal,) Saxonia (*prope* Glashutte, Annaberg & Camsdorf,) *comitatu* Mansfeldenſi, Wirtembergia (*prope* Schiltach,) & Temeſia (*prope* Oraviza & Dognaska,) *formæ communis, ſuperficiale, vel minoribus particulis majoribusve fruſtis ſpato, quartzo, margæ ſchiſtoſæ inſperſum, colore tombacum, cuprum vel calybem induratam æmulans, utplurimum violaceo aut purpureo, fracturæ frequentius minutim conchaceæ, quam ſchiſtoſæ, aut ſtellatim fibroſæ. præter cuprum, arſenicum & ſulphur, pauxillum quoque ferri continens; interdum* e. gr. *prope* Neoſolium ($\frac{1-10}{3200}$) *argenti, cupri ad* $\frac{4}{7}$-$\frac{5}{0}$.

cinereum. 18. C. duriuſculum fragile metallice nitens compactum coloris calibei.
Fahlerz.

Syſt. nat. XII. 3. *p.* 144. *n.* 7. Cuprum mineraliſatum pyriticoſum cinereum o-o, ♂.

Syſt. nat. I. *p.* 278. *n.* 4. Cuprum cinereum.

Gronov. ſuppl. 13. *n.* 38. Cuprum argento & arſenico mixtum.

Waller. miner. 283. Cuprum arſenico, ferro & argento mineraliſatum, minera albeſcente.

Waller. ſyſt. miner. 2. *p.* 281. *n.* 8. cuprum arſenico ſulphure & ferro plerumque una cum argento mineraliſatum, minera cinerea vel nigra.

Cronſt. miner. §. 196. 2. 1. Pyrites cupri gryſeus.

β) *Syſt. nat.* XII. 3. *p.* 150. *n.* 6. Argentum (cinereum) mineraliſatum cupri cinerei, tritura rubra. 🜺, ♄, ♀, ♂.

Waller. miner. 290. Argentum arſenico, cupro & ferro mineraliſatum, minera griſea.

Waller. ſyſt. miner. 2. *p.* 337. *n.* 7. Argentum arſenico, ſulphure, cupro & ferro mineraliſatum, minera ſolida griſea.

Woltersd. miner. 30. Cuprum pallido-griſeum ſplendens argenti dives.

Habitat frequens minoribus particulis majoribusve fruſtis quartzo, barytidi, terris calcariis, ferri cuprique calcibus nativis innidulans, in inſula Timor (*e. gr. prope* Dilil, Ade) *in* Sibiriæ (*in* Tſchudarum *terra, & ad montes* altaicos,) Lapponiæ (*prope* Ruſſenika *&* Eſchavelok,) Norwegiæ (*prope* Bramble,) Sueciæ (*prope* Sunnerskog,) Scotiæ (*prope* Erskin,) Pyrenæorum (*prope* Aſtoeſcoria,) Lotharingiæ (*prope ſanum* S. Mariæ) Siciliæ (*prope* Ali) Hetruriæ (e. gr. *prope* Seravezza,) Pondemonti (*prope* Daliagna) Carinthiæ (*prope* Roſſeg *&* S. Hermagoras,) Salisburgi, Styriæ (*prope* Schladming,) Tirolis (*prope* Groſengogel, Roehrbuchel *&* Schwaz,) Wirtembergiæ (*prope* Schiltach, Bulach, Dornſtette *&* Freudenſtatt,) rhenanis (*prope* Fiſchbach, Mehlbach, *in monte* Stahlberg, *prope* Nohfelden, Berſchweiler, Moſchellandsberg, *&* Langeheke,) Hercyniæ, Thuringiæ (*prope* Saalfeld,) Saxoniæ (*prope* Camsdorf, Scharfenberg, Freyberg, Tſchoppau, Annaberg *&* Johanngeorgenſtadt,) Bohemiæ (*prope* Catharinenberg,) Hungariæ (*prope* Goellniz Schmoelniz, Czinobanya, Kapnik, Tranſilvaniæ (*prope* Salatnum,) *&* Temeſiæ (*prope* Dognaska *&* Saska) *fodi-*

nis etiam in Turcia (*prope* Peram,) *ponderoſum, facile in fragmenta indeterminata diſſiliens, intus quoque nitens, colore interdum in ferri colorem vergente aut ſuperficie iridis coloribus ludente, compactum, rarius tamen texturæ planæ, faciebus internis ſpeculi ad inſtar interdum nitentibus, præter cuprum, arſenicum, ferrum, & ſulphur pauxillum argenti ad* $\frac{1}{200}$, *rarius* e. gr. *in* Tranſilvania (*prope* Facebai) *auri quoque continens, forma communi aut crebro cryſtallorum lævium nitentium, nunc priſmata hexaedra in aciem terminata, aut pyramides ſimplices triedras, rarius perfectas, quam marginibus in aciem terminatis, aut angulis pyramidem alteram geſtantibus conſpicuas, referentium.*

fœtidum. 19. C. durum, metallice nitens, coloris plumbei texturæ conchaceæ contuſum fœtens.
Renovanz von altaiſch. Geb. p. 142.
Habitat in Sibiriæ *monte* Schlangenberg, $\frac{45}{100}$ *cupri, &* $\frac{1}{128}$ *argenti continens.*

pſittacinum. 20. C. ponderoſum obſcure pſittacinum radiatum in feſtucas diſſiliens, in cruſtas ſæpe ſecedens.
Renovanz altaiſch. Geb. p. 235.
Habitat in cumulis fodinarum Bogojablenskenſium *adnontes* Altaicos Sibiriæ, $\frac{10-15}{200}$ *cupri, & ad* $\frac{1}{528}$ *argenti continens, an diſtincta ſpecies?*

altaicum. 21. C. duriuſculum debilius nitens canum fragile textura feſtucas minores referens.
Renovanz altaiſch. Geb. p. 235.
Habitat in cumulis fodinarum Bogojablenskenſium *admontes* Altaicos Sibiriæ, *cum pſittacino eandem circiter cupri argentique copiam continens, ſpiritum ſalis ammoniaci viridi colore tingens, an diſtincta ſpecies?*

plumbeum. 22. C. nitoris & coloris blumbei texturæ planæ.
Linck chem. Annal. 1790. I. *p.* 150. Derber Weisgulden von Andreasberg.
Habitat in Hercyniæ *fodinis, præter ſulphur, cuprum & argentum (hujus ad* $\frac{12}{100}$ *) ferrum, arſenicum plumbumque continens.*

hercynicum. 23. C. duriuſculum obſcure nitens coloris ex atro cinerei.

Weſtrumb chem. Annal. 1789. 2. *p.* 527. Weisgultig Erz vom Harz.

Habitat in Hercyniæ *fodinis, multum cupri, ſtibii & ſulphuris, aliquid ferri pauxillum argenti, arſenici plumbique nihil continens, an vere diſtincta ſpecies?*

alicum. 24. C. nitoris metallici coloris chalybei tritura rubra.

Cronſt. miner. §. 173. Argentum cupro & antimonio ſulphurato mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 338. *n.* 7. a. Argentum arſenico, ſulphure, cupro & ferro mineraliſatum, minera ſolida griſea.

Habitat in Sueciæ *fodinis* Dalicis (paroeciæ Ånimskog,) & Saxoniæ (*prope* Freyberg,) *arſenico carens, at præter ferrum* ($\frac{24}{100}$) *& cuprum* ($\frac{13}{1000}$) *ſtibium quoque continens, & pauxillum argenti.*

fulvum. 25. C. flavum metallice nitens, prunis inſperſum ſulphuris vaporem flammamque eructans.

Syſt. nat. I. *p.* 179. *n.* 8. XII. 3. *p.* 144. *n.* 4. Cuprum mineraliſatum pyriticoſum fulvum.

Wall. min. 284. Cuprum ſulphure & ferro mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 282. *n.* 9. Cuprum ſulphure & ferro mineraliſatum, minera colore aureo vel variegato nitente.

Cartheuſ. miner. 70. Cuprum mineraliſatum clariuſculum ſaturate luteum nitens.

Cronſt. miner. §. 196. 3. 4. 5. Pyrites cupri.

β) *Syſt. nat.* I. *p.* 169. *n.* 5. 6. 7. Pyrites ferreo-cupreus.

Syſt. nat. XII. 3. *p.* 115. *n.* 6. Pyrites mineraliſatus amorphus non ſcintillans ♂, ♀.

Cronſt. miner. §. 196. 3. Pyrites cupri flavo-virideſcens.

Waller. ſyſt. miner. 2. *p.* 283. *n.* 10. Cuprum ſulphure & ferro mineraliſatum, minera ex flavo virideſcente.

γ) *Waller. ſyſt. miner.* 2. *p.* 284. *n.* 11. Cuprum pyrite ſulphureo mineraliſatum minera pallide flava.

Cronſt. miner. §. 196. 4. Pyrites cupri pallide flavus.

δ) *Waller. ſyſt. miner.* 2. *p.* 285. *n.* 12. Cuprum pyrite fuſco mineraliſatum, minera flavo-fuſca.

Cronſt. miner. §. 196. 5. Pyrites cupri hepaticus.

Habitat copioſiſſimum & innumera quidem varietate, nunc ſuperficiale, nunc minoribus particulis majoribusve fruſtis margæ bituminoſæ, aliis terris calcariis, quartzo &c. innidulans, galenæ, pſeudogalenæ, ferri, aliarum cupri

mincrarum frequens comes in Angliæ, Norwegiæ, Sueciæ, Germaniæ, Hungariæ, Navarræ &c. *cupri ſodinis ferre omnibus, cupri* $\frac{8-17}{100}$ *ferro & ſulphuri nuptans, præterea nonnunquam pauxilium arſenici, rarius e. gr. in* Hungaria *argenti aurive continens, coloris utplurimum aurei interdum, (γ) pallidioris, aut in vireſcentem (β) aut (δ) fuſcum vergentis, ſuperficiei non raro viridis, cærulei, cuprei, vel variegati, rarius durum, quam duriuſculum, rarius in cruſtas ſecedens, quam in grana; compactum, rarius texturæ planæ quam granularis, vel imperfecte conchaceæ, ſuperficie interdum ſpeculi inſtar nitente aut ſtriata, vel veſtigiis cubicis impreſſis inæquali, forma frequentiſſime communi, rarius globulorum, aut arbuſcularum, aut cryſtallorum, nunc cubos, nunc pyramides triedras ſimplices cohærentes, nunc duplices tetraedras ſæpe in ſeries digeſtas referentium.*

campanarum. 26. C. duriuſculum ponderoſum metallice nitens coloris ex cæruleſcente calybei.
Molin. Naturg. Chil. p. 74.
Klaproth Schr. naturf. Berl. Fr. 7. *p.* 160. &c.
Habitat in regni Chilenſis, & Cornubiæ (*prope* Wheal Rock) *fodinis, ſulphur & ſtannum præter cuprum continens, illud ſimul arſenicum, quo una cum ſulphure per ignem diſſipato maſſa cinerea ſupereſt, parandis per fuſionem vaſis inſerviens, hoc præter ſulphur* ($\frac{1}{4}$)*, ſtannum* ($\frac{34}{100}$)*, & cuprum* ($\frac{36}{100}$) *ferrum* $\frac{3}{100}$ *continens, granitæ fatiſcenti innidulans.*

aurichalceum. 27. C. coloris aurichalcei metallice nitens malleabile.
Molina Naturg. Chil. p. 77. Cuprum (laxenſe) zinco naturaliter mixtum.
Habitat in colle provinciæ Chilenſis Huilquilemu, *ad fluvium* Laxa *poſito, ex cupro & zinci conflatum.*

cornubicum. 28. C. ſulphuri, zinco, ſtanno, & arſenico junctum cinereum.
Raſpe nov. act. Petrop. 3. *hiſt. p* 67.
Habitat in Cornubia; *an diſtincta ſpecies?*

vitratum. Kuferglas. 29. C. molle metallice nitens, coloris plumbei igne facile liqueſcens.
Syſt. nat. XII. 3. *p.* 144. *n.* 6. Cuprum mineraliſatum pyriticoſum ſectile canum ♀.
Cronſt. miner. §. 195. Cuprum ſulphure mineraliſatum.

Waller. min. 264. Minera cupri griſea.

Waller. ſyſt. miner. p. 277. *n.* 4. Cuprum ſulphure mineraliſatum, minera obſcure nitente griſea molli.

Habitat ſuperficiale, minoribus particulis majoribusve fruſtis aliis foſſilibus innidulans in montium Sibiriæ altaicorum, *in* Laponiæ (*prope* Ruſſenika & Swappavari,) Norwegiæ (*in* Hitterthal, *prope* Brambie, Kongsberg., Ordel & Atwed,) Sueciæ (*prope* Sunnerſkog,) Scotiæ (*prope* Erskin,) Angliæ (*prope* Middleton Lyas,) Pyrenæorum (*in pago* Malpatre,) Wirtembergiæ (*prope* Schiltach,) Rhenanis (*prope* Fiſchbach, Rheinbreidenbach, Veldezenz, Berſchweiler & Nohfelden,) Weſtphaliæ (*prope* Stadtbergen,) Haſſiæ (*prope* Franckenberg,) Hercyniæ (*prope* Lauterberg,) Thuringiæ (*prope* Sangerhuſam,) Saxoniæ (*prope* Camsdorf, Deutſchneudorf, Seifen, Sayda, Freyberg, Zinnwalde & Glashutte,) Bohemiæ (*prope* Catharinenberg,) Auſtriæ (*prope* Spiz,) Hungariæ (*prope* Roſenau & Schmoelniz,) Temeſiæ (*prope* Saska & Dognaska,) & Tranſilvaniæ (*prope* Dewa) *fodinis, ex ſolo cupro & ſulphure conſtans, quo poſteriori lente diſſipato cuprum* ($\frac{60-70}{100}$) *ſupereſt, tenui modo ſulphuris cortice obductum, rarius argenti miculas inſperſa tenens, colore interdum in ferri colorem tranſeunte, aut in ſuperficie variegato, rarius lamelloſum, quam compactum, texturæ planæ, inæqualis vel minutim conchaceæ, forma utplurimum communi; nonnunquam cryſtallorum priſmata exilia hexaëdra, interdum pyramide triedra terminata, aut pyramides triedras ſimplices, aut tetraedras duplices ſolitarias aut in ſpicæ* e. gr. *ſpeciem aggregatas referentium.*

Phlogiſticum. 30. C. nigrum difficilius exardeſcens, ſed flammam diu ſuſtinens & in cineres fatiſcens.

Cronſt. miner. §. 160. 6. 1. Minera cupri phlogiſtica.

Waller. ſyſt. miner. 2. *p.* 285. *n.* 13. Cuprum mineraliſatum, materia bituminoſa involutum, facie carbonaria.

Habitat in Sueciæ *fodinis* (Nädkärr Daliæ & *prope* Biſpberg,) *lithanthracem externa facie referens, cupro difficilius ex cineribus reducendo.*

88. NICCOLUM. ♂ Malleabile coloris albi in rufeſcentem vergentis, ponderis ſpecifici=9000 : 1000.

Acidis facile ſolvendum, colorem viridem iis impertiens, natro quoque volatili, colorem cæruleum huic concilians.

Igne fixiſſimum, & æque difficulter liquandum, ac ferrum cuſum, diutius efficaci igne in calcem viridem abiens, cum borace in vitrum hyacinthinum colliquandam.

ochraceum. 1. N. viride inconſpicuum nitoris expers formæ communis.
Syſt. nat. XII. 3. *p.* 193. *n.* 5. Ochra cupri Nickoli pulverea viridi-flaveſcens.
Cronſt. miner. §. 253. Ochra niccoli martialis.
Waller. ſyſt. miner. 2. *p.* 191. *n.* 2. Niccolum colore viridi efflореſcens.
Habitat in niccoli *mineris fatiſcentibus, earum ſuperficiei inſidens utplurimum ſuperficiale, in* Saxoniæ (*prope* Johanngeorgenſtadt, Annaberg, Freyberg,) Hercyniæ (*prope* Andreasberg,) Haſſiæ (*prope* Rigelsdorf,) Sueciæ (*prope* Loos Helſingiæ,) *rarius argillæ innidulans, in* Sueciæ (*prope* Normardi Wermelandiæ,) *fodinis, coloris utplurimum dilute pomacei, rarius læte viridis, aut graminei, aut ex cæruleo viridis, præter niccoli calcem ſemper etiam aliquid ferreæ calcis continens.*

metallicum. 2. N. metallice nitens, aqua forti totum ſolvendum prunis inſperſum arſenici fumum eructans.
Habitat in Bohemiæ (*prope* Joachimsthal,) Saxoniæ (*prope* Johanngeorgenſtadt & Scheeberg,) & Hercyniæ (*prope* Andreasberg) *fodinis, nunc rubens, nunc fulvum, nunc ochroleucum, præter niccolum, ferrum, cobaltum, &* ($\frac{6-15}{100}$) *arſenicum continens.*

3. N.

ſulphuratum. 3. N. metallice nitens, aqua forti non penitus ſolvendum; prunis inſperſum arſenici fumum & ſulphuris vaporem flammamque eructans.

Syſt. nat. I. *p.* 170. *n.* 5. Arſenicum rubens cupreum.

Syſt. nat. XII. 3. *p.* 146 *n.* 16. Cuprum (Niccolum) mineraliſatum arſenicate fulvum ♃, ⚯, ♂.

Vogel miner. 409. Cuprum Nicolai.

Woltersd. miner. 28. Arſenicum fulvum ſplendens ſ. Pſeudocobaltum.

Cartheuſ. miner. 58. Arſenicum mineraliſatum informe, particulis rubicandis nitidis.

Waller. miner. 228. Arſenicum ſulphure & cupro mineraliſatum, minera difformi aëris modo rubente.

Waller. ſyſt. miner. 2 *p.* 139. *n.* 1. Niccolum ferro & cobalto arſenicatis & ſulphuratis mineraliſatum, minera difformi flavo-rubente.

Cronſt. miner. § 254 Niccolum ferro & cobalto arſenicatis & ſulphuratis mineraliſatum.

Cronſt. act. Stockh. 1751. 1754. Niccolum.

Juſt. miner. 184. Kupfernickel.

Gonſ. calm. 20. *n.* 32. Cobaltum aëris modo lucens.

Habitat una cum cobalto, in Sibiriæ, Sueciæ (*prope* Loos Helſingiæ,) Cornubiæ (*prope* Triego,) Arragoniæ (*prope* Gu loam,) Delphinatus (*prope* Allamont,) Hercyniæ (*prope* S. Andreasberg,) Haſſiæ (*prope* Biber & Riegelsdorf,) Thuringiæ (*prope* Saalfeld & *in comitatu* Mansfeld,) Saxoniæ (*prope* Hohenſtein, Annaberg, Schneeberg & Johanngeorgenſtadt,) Bohemiæ (*prope* Joachimsthal,) & Stiriæ (*prope* Schladming) *fodinis, igni expoſitum calcem viridem relinquens, & ſæpe cum jactura nitoris ſuperficialis tincta viridi efflorescens, coloris cuprei, rarius ocroleuci vel cinerei, nunc compactum, nunc minutim lamelloſum, præter niccolum ferrum, cobaltum arſenicum & ſulphur continens, interdum wismutum aut cuprum, rarius argentum, rariſſime aurum inſperſum habens.*

89. **WISMUTUM.** W Molle, fragile, lamelloſum, argenticolor, cum jactura nitoris ſuperficialis colorem flavicantem vel rufeſcentem mutans, ponderis ſpecifici = 9700 : 1000.

Igne facilime liquandum & in calcem primo flavicantem tum rubram abiens, quæ vitris fuſcum colorem impertitus.

Solutione in acidis excolore, per aquam meracam lacteſcente & præcipitanda.

nativum. 1. W. nudum aqua forti totum ſolvendum, metallice nitens. *Syſt. nat.* I. *p.* 173. *n.* 1. XII. 3. *p.* 128. *n.* 1. *Muſ. Teſſin.* 52. *n.* 1. *Carth. miner.* 54. Wiſmutum nativum.

Cronſt. miner. §. 220. *Juſt. miner.* 158. *Waller. ſyſt. miner.* 2. *p.* 205. *n.* 1. Wiſmutum nativum.

Waller. miner. 242. Wiſmutum nativum tenuibus lamellis adhærens.

Woltersd. miner. 28. Wiſmutum nudum nativum.

β) *Waller. ſyſt. miner.* 2. *p.* 208. *n.* 4. Minera wismuti verſicolor.

Habitat, frequentiſſime una cum cobalto, rarius omni arſenico argentove carens. utplurimum quartzo, baryticis, petroſilici, vel arenario inhærens, in Sueciæ, (Dalecarliæ, *paroecia* Stora Skedwi, *etiam prope* Loos & Loſaſen,) Sevennarum Galliæ (*prope* S. Sauveur,) Saxoniæ, Bohemiæ (*prope* Joachimsthal,) Wirtembergiæ, (*prope* Alpirſpach,) Temeſiæ, & (*prope* Salathna,) Tranſilvaniæ *fodinis, argentum ſæpe colore & nitore æmulans, aut in ſuperficie rufeſcens, pumaceum iridiſve coloribus ludens in grana ſecedens, nunc ſuperficiale, nunc venæ inſtar matricem percurrens, nunc majoribus fruſtis huic innidulans, lamelloſum, rarius compactum aut ſtellatim fibroſum, aut texturæ ad radiatam accedentis, ſuperficie interdum arbuſcularum imaginibus picta, aut ſulcis interdecuſſantibus exarata, aut plumæ inſtar ſtriata,*

dum celluloſum aut eroſum, formæ utplurimum communis, nonnunquam ſtillatitiæ, arbuſcularis, vel cubicæ.

ochraceum. 2. W. inconſpicuum friabile formæ communis.

Syſt. nat. XII. 3. *p.* 193. *n.* 7. Ochra wiſmuti pulverea flaveſcens.

Cronſt. min. §. 221. Wiſmutum calciforme pulverulentum.

Juſt. mineral. 165. Flos wiſmuti.

Waller. ſyſt. miner. 2. *p.* 209. *n.* 6. Wiſmutum terreſtre pulverulentum flaveſcens.

Habitat, utplurimum wiſmuto nativo aut mineraliſato fatiſcentibus inſidens, pulverulentum aut friabile, ſtramineum, ochroleucum vel cinereum.

ſulphuratum. 3. W. metallice nitens, ſtannei coloris aqua forti non totum ſolvendum, prunis inſperſum ſulphuris flammam eructans.

Cronſt. miner. §. 222. 1. Wiſmutum ſulphure mineraliſatum.

Waller. miner. 234. Wiſmutum arſenico, ſulphure, cobalto mineraliſatum.

commune. α) W. mineraliſatum albo-flaveſcens micans, ○=○, 🜍. *Syſt. nat.* [illegible] *p.* 172. *n.* 2. XII. 3. *p.* 128. *n.* 2.

Waller. ſyſt. miner. 2. *p.* 207. *n.* 3 Wiſmutum ſulphure & arſenico mineraliſatum, ſquamulis aut particulis micans.

…ners. β) W. mineraliſatum nitens ſublaminoſum 🜍. *Syſt. nat.* XII. 3 *p.* 128. *n* 4.

Waller. ſyſt. miner. 2. *p.* 206. *n.* 2. Wiſmutum ſulphure mineraliſatum, minera alba cæruleſcente laminoſa.

Habitat in Sueciæ (*prope* Riddarhytta, Stripas, Bærninge & *in* Färila,) Saxoniæ (*prope* Altenberg,) Bohemiæ (*prope* Chuteniz,) & Hanoviæ (*prope* Biber) *fodinis, nunc minoribus particulis, nunc majoribus fruſtis quartzo, asbeſto, ferro ſpatoſo innidulens, coloris ſtannei, ſuperficie interdum flavicante, ſæpe arſenico fœtunt, aut cobalti particulis immiſtis dives, radiatum aut lamelloſum, poſteriori in caſu galenam interdum imitans.*

…rtiale, 4. W. metallice nitens cinereum, aqua forti non totum ſolvendum, prunis inſperſum ſulphuris flammam eructans.

Syſt. nat. XII. 3 *p.* 128. *n.* 3. Wiſmutum mineraliſatum, lamellis cuneatis.

Cronſt. miner. §. 223. 2. Wiſmutum ferro ſulphurato mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 208. *n.* 5. Wiſmutum ſulphure & ferro mineraliſatum in minera lamellis cuneiformibus compoſita.

Habitat in Norwegia (*prope* Gellebek,) *texturæ radiatæ, præter wiſmutum & ſulphur ferrum continens.*

90. ARGENTUM. ☽ Summopere malleabile & ductile, ſonorum, album, coloris & nitoris tenacius, ponderis ſpecifici = 10595 : 1000.

Igne dificilius liquandum, mercurum vix in calcem vitrumve convertendum, ipſi plumbi vitro pertinaciſſime reſiſtens, fixum, calce vitris opalinam turbiditatem conciliante.

Acidis, quibus ſolvitur nullum colorem impertinens.

nativum. 1. A malleabile ductile intus metallice nitens, aqua forti totum ſolvendum.

Syſt. nat. I. *p.* 183. *n.* 1. XII. 3. *p.* 148. *n.* 1. Argentum nudum.

Woltersd. miner. 29. *Waller. miner.* 307. *ſyſt. miner.* 2. *p.* 328. *n.* 1. Argentum nativum.

Cronſt. miner. §. 167. Argentum purum nativum.

Cartheuſ. miner. 75. Argentum nudum malleabile.

Habitat nunc ſuperficiale, (e. gr. *in* Norwegiæ *prope* Kongsberg, Angliæ, Saxoniæ) *prope* Johanngeorgenſtadt, Schneeberg, Freyberg & *ad* Barenſtein, Wirtenbergiæ v. gr. *prope* Schiltac & *in* Chriſtophsthal, Auſtriæ *prope* Annaberg, Hungariæ *prope* Kapnik *fodinis*, *nunc venæ inſtar matricem percurrens*, *nunc fruſtis majoribus*, *vel* (*larvatum*) *particulis minutiſſimis nudo certe oculo non uſurpandis aliis foſſilibus omnis fere claſſis & generis inſperſum*, *in regni* Peruani (*prope* Potoſi,) Chilenſis, Mexicani *fodinis*, Sibiriæ *montibus* altaicis, *præſertim monte* Schlangenberg, Norwegiæ (*prope* Kongsberg,) Sueciæ (*prope* Uto, Normark, Sunnerskog, Dal & Lotalen

Hiſpania (*prope* Guadalcanal,) Britanniæ (*prope* Huclyvar,) Hercyniæ (*prope* Andreasberg,) Bipontii (*ad montem* Stahlberg.) Naſſovia, Fürſtenbergiæ (*prope* Wittichen & Reinerzau,) Wittembergiæ (*prope* Schiltach & *o im in* Murgthal,) Thuringiæ (*prope* Saalfeld,) Saxoniæ *prope* Berggieshübel, Memmendorf, Bræunsdorf, Freyberg, Marienberg, Ehrenfriedersdorf, Breitenbrunn, *ad montem* Berenthun, *prope* Schlettau, Waltersdorf, Annaberg, Chemniz, Raſchau, Schneeberg, Geier & Johanngeorgenſtadt,) Bohemiæ (*prope* Joachimsthal, Aberdan, Preſniz, Mies, Catharinenberg, Ratieborziz, Budweis, Kuttenberg, Tabor & Przibram, Franconiæ (*prope* Ilmenau,) Bavariæ (*prope* Creisdorf,) Tirolis, Auſtriæ (*prope* Annaberg,) Hungariæ (*prope* Schemniz, Felſobanya, Ujbanya, Schmoelniz & Kapnik,) & Tranſilvaniæ (*prope* Nagyag & Kisbanya) *fodinis, rariſſime omnis cupri & auri expers, interdum quoque ferri pauxillum continens, ſuperficie interdum nitore priva nigra vel lutea, ſuperficie ſæpe ſtriata, interdum plumæ ad inſtar, aut veſtigiis cubicis vel pyramidalibus inæquali forma ſæpius communi, alias bracteas, dentes, ſetas, fila, capillos, telam aranearum, externa facie referens, aut forma cryſtallorum exilium, priſmatum hexaedrorum compreſſorum, acicularum, pyramidum ſimplicium triaedrarum, vel duplicium tetraedrarum, vel cuborum, utplurimum gregariorum, ſparſorum, aut in ſeries, faſciculos, pyramides, ramos, arbuſcula, fila, denticulorum ſpeciem aggregatorum conſpicuum.*

butyraceum. 2. A. inconſpicuum friabile, pelliculis tenuibus ſpata intertextis.

r. Born ind. foſſ. 2. *p.* 110. Buttermilcherz.

Habitat (olim) in Hercyniæ *fodinis (prope* Andreasberg *præſertim fodina* S. Georgii, *pelliculis albis, cæruleis aut ſubfuſcis.*

nigrum. 3. A. aterrimum friabile ponderoſum cum aqua forti efferveſcens tritura demum metallice nitens.

Syſt. nat. I. *p.* 183. *n.* 6. XII. 3. *p.* 150. *n.* 9. Argentum obſcurum fuliginoſum o—o, ♀.

Cartheuſ. miner. 76. Argentum mineraliſatum continuum nigricans.

Cronſt. miner. §. 170. 3. 1. Argentum arſenico & cupro ſulphuratis mineraliſatum.

Waller. min. 312. Argentum ſulphure, arſenico, cupro & ferro mineraliſatum, minera nigra ſ. fuliginea.
Waller. ſyſt. miner. 2. *p.* 335. *n.* 6. Argentum arſenico, ſulphure & cupro mineraliſatum, minera nigra fuliginea.
Habitat in Siciliæ (*ad montem* Niſo,) Britanniæ (*prope* Huelgoat,) *potiſſimum* Saxoniæ (*prope* Johanngeorgenſtadt, Raſchan, Marienberg & Annaberg) *fodinis, ex argento albo fatiſcente, ſæpe naſcens, nunc corticis inſtar aliis mineris ſuper inductum; nunc minoribus particulis inſperſum, nunc per barytidem diſperſum, huncque nigro tinctu perfundens, non raro cavis argenti cornei globis incluſum, ſæpe pulverulentum, argenti dives, præter quod ſulphur, crebro etiam arſenicum & cuprum, nonnunquam quoque ferrum continet.*

corneum. 4. A. ponderoſum molle malleabile nitoris metallici expers ſubdiaphanum igne facilime liquandum & ſumi albi fœtidi forma tandem totum volatile.
Hornerz.

Syſt. nat. I. *p.* 183. *n.* 3. Argentum diaphanum lamelloſum.
Syſt. nat. XII. 3. *p.* 148. *n.* 2. Argentum mineraliſatum ſubmalleabile ſubdiaphanum micans. ♆, o—o.
Cartheuſ min. 75. Argentum mineraliſatum fuſco flavum ſubdiaphanum fragile.
Cronſt. miner. §. 176. Argentum acido ſalis ſolutum & mineraliſatum.
Waller. miner. 308. Argentum ſulphure & arſenico mineraliſatum, minera malleabili vitrea candelæ igne liquabili.
Waller. ſyſt. min. 2. *p.* 331. *n.* 3. Argentum acido ſalis mineraliſatum, minera ſemipellucida lamelloſa cornea igne candelæ liquabili.
Habitat rarius, minori ſemper profunditate, quam reliquæ argenti mineræ, occurens, interdum argento nativo in ſcriniis humidis aſſervato, aut in monetas cuſo & per aliquod temporis ſpatium in mare detruſo, naſcens, in Hungariæ (*prope* Schemnitz,) Bohemiæ (*olim prope* Weipertb, Gottesgab & Joachimsthal,) *potiſſimum* Saxoniæ (*prope* Raſchau, Oberſchœna, Marienberg, Freyberg, Annaberg, Schneeberg, *præſertim* Johanngeorgenſtadt,) Norwegiæ (*prope* Kongsberg,) Alſatiæ (*prope* Fanum S. Mariæ,) Delphinatus (*prope* Allemont,) Hiſpaniæ (*prope* Guadalçanal,) *regni* Mexicani, Peruani (*prope* Potoſi &) Chilenſis, *montium* Sibiriæ altaicorum *fodinis, ad candelam ceream aut ſebi inſtar fluens, & coram tubo ferruminatorio in carbone examinatum paucula argenti grana relin-*

quens, argenti ditiſſimum, quod muriæ & vitrioli acido junctum eſt, rarius tam copioſo, ut in aëre deliqueſcat, interdum ferri, argillæ, terræ calcariæ, quartzi, etiam ſulphuris particulas admixtas habens, a poſteriori fragile, rarius pulverulentum aut lutoſum, quam induratum, exterius ſæpe pinguedinis inſtar nitens, intus compactum & terreum, rarius verſicolor, flavum, aut niveum (in poſteriori caſu ad aërem violaceum tinctum ſenſim induens,) quam margaritaceum, viride, violaceum, cæruleum, hepaticum aut ſubfuſcum, crebro formæ communis, ut tamen etiam in maſſis ovum vel ſphæram referentibus intus cavis, aut capillis ſubtiliſſimis, in pellis ſpeciem aggregatis, aut cryſtallis exilibus extrinſecus ſæpe ſpeculi inſtar nitentibus, rarius cruciatis, acicularibus, aut parallelepipedis, quam cubicis, frequentius aggregatis occurrat.

Electrum. 5. A. malleabile ductile metallice nitens flavicans aqua forti non totum ſolvendam.

v. Veltheim n. Entd. Chem. 7. p. 75.

Habitat in Sibiriæ *monte* Schlangenberg, Norwegiæ *fodinis (prope* Kongsberg,) *ex argenti & auri interdum æquali portione conflatum, ut aqua forti tentatum ſemper aurum relinquat.*

Stibiatum. 6. A. metallice nitens malleabile ſtanneum duriſſimum lamelloſum, igni expoſitum neque ſulphuris neque arſenici vaporem emittens, aqua forti tentatum calcem albam relinquens.

Sell Magaz. Bergbauk. 3. 1786. n. 1. p. 1.

Habitat in Furſtenbergiæ *fodina* S. Wenceslai *prope* Wolfach, *ex argento* ($\frac{7}{10}$-$\frac{1}{4}$) *& ſtibio nativo interdum etiam ferri particula conflatum, hinc coram tubo ferruminatorio igne exploratum fumum album eructans, & tandem meracum argentum reliquens, hydrargyro facile nubens, in grana ſecedens, ad aërem ſæpe extrinſecus flaveſcens aut rufeſcens, in pulverem nigricantem conterendum, qui magnetem non ſequitur, ſpato aut barytidi innidulans, formæ utplurimum communis, interdum priſmata tetraëdra aut hexaëdra in cuneos aut faſciculos aggregata referens.*

Arſenicatum. 7. A. metallice nitens igne facile liqueſcens & arſenici fumum eructans.

Werner Samml. z. Phyſ. u. Naturg. 1. p. St. 4. p. 454.

Habitat nunc ſtannei coloris & nitoris, pauxillum quoque ferri continens, majoribus minoribusve partibus aliis immerſum, argento dives, in Hercyniæ fodinis, prope Andreasberg, *nunc ochroleucum, durum, intus ſi*[illegible] *argenti $\frac{8}{10}$ continens, nunc molle, ut ſecari cultro queat, & incurvo-lamelloſum, argenti minorem ($\frac{1}{200}$) copiam continens, in Hiſpaniæ fodinis prope* Guadalcanal, *ut plurimum ex mero argento & arſenico nativo conſtans.*

molybdænatum. 8. A. metallice nitens, lamellis tenuibus flexilibus.

Ferber nov. act. Petrop. 3. p. 267.

Habitat in Hungaria (*prope* Deutſchpilſen) *ex argento, molybdæna & ferro conſtans.*

Nagyagense. 9. A. metallice nitens, lamellis flexilibus, coloris inter ſtanneum & ferreum intermedii.

Karſt. Leſk. Mineralk. Vowede.

Habitat in Tranſilvaniæ *fodinis prope* Nagyag, *ad aurum* Nagyagenſe *externa facie proxime accendens; an huc ſpectat?*

Vitreum. 10. A. plumbicolor facilime & cum vapore flammaque ſulphurea igne liqueſcens opacum ponderoſiſſimum molle tenax.

Syſt. nat. I. *p.* 183. *n.* 2. Argentum malleabile.

Syſt. nat. XII. 3. *p.* 148. *n.* 3. Argentum mineraliſatum ſectile malleabile plumbicolorum ♃.

Cartheuſ. miner. 75. Argentum mineraliſatum griſeum ſplendens malleabile.

Woltersd. miner. 29. Argentum plumbei coloris ſplendens malleabile.

Waller. miner 303. Argentum ſulphure mineraliſatum, minera malleabili vitrea, candelæ igne liquabili.

Waller. Syſt. miner. 2. *p.* 329. *n.* 2. Argentum ſulphure mineraliſatum, minera malleabili vitrea facile fuſibili.

Cronſt. miner. §. 168. 2. 1. Argentum ſulphure mineraliſatum.

Habitat in Sibiriæ *monte* Schlangenberg, *in* Norwegiæ (*prope* Kongsberg,) Hercyniæ (*prope* Andreasberg,) Saxoniæ (*prope* Freyberg, Bræunsdorf, Oberſchoena, Schneeberg, Annaberg, Johanngeorgenſtadt, & *in monte* Rammelsberg,) Bohemiæ (*prope* Joachimsthal, Aberdam, Przibram, Jungwoſchiz, Katieborziz, *olim quoque* Kuttenplan,) Hungariæ (*prope* Schemniz,) Wirtembergiæ (*prope* Reinerzau & Eberſpach,) Furſtenbergiæ

(*prope* Wittichen,) Alſatiæ (*prope* fanum S. Mariæ,) Delphinatus (*prope* Allemont,) Sabaudiæ (*prope* la Sourde,) Hiſpaniæ (*prope* Guadalcanal,) *regni* Chilenſis & novæ Hiſpaniæ *fodinis, ſuperficiale, venæ inſtar percurrens alia foſſilia, aut punctatim vel per maculas his inſperſum, aut incluſum aut maſſis majoribus obvium,* ¾ *& ultra argenti continens, hocque igni expoſitum meracum relinquens, quippe ſoli ſulphuri, rarius exiguæ arſenici aut auri portioni ſimul junctum, compactum, ſuperficie interdum chalybem induratam, aut colorem ex atro cœruleum, vel iridis colores referente, vel fatiſcente, interdum ab immixto arſenico & cobalto ex cinereo rufeſcente, crebro formæ communis, at quoque eroſum, cellulosum, ſulcis decuſſantibus, veſtigiis cubicis aliisque inæquale, capillare, filiforme, dentes, globulos ſolitarios vel aggregatos, ſtirias æmulans, vel cryſtallos exiles, at quidem pyramides ſimplices triadras, vel duplices tetraedras, cubos, vel priſmata, tetraedra, octoedra, utrinque pyramidata, vel hexaedra, nunc ad latera truncata, & utrinque in aciem obtuſam terminata, nunc pyramide tetraedra vel triedra terminata, ſingulas rarius ſolitarias, quam ſeorſim, aut in ſcalarum, gemmarum, ramorum, fruticiorum, arbuſcularum, antennarum ſpeciem aggregatas referens.*

fragile. 11. A. ex plumbeo atrum metallici nitoris expers opacum facilime & cum vapore flammaque ſulphuris liqueſcens fragile.

Vogel minerall. p. 445. Ræſchgewæchs.

Habitat in Delphinatus (*prope* Allamont,) Saxoniæ (*prope* Freyberg, Grosvoigtsberg, Schneeberg, Annaberg, Johanngeorgenſtadt & Oberwieſenthal,) Bohemiæ (*prope* Ratieborziz,) Hungariæ (*prope* Cremniz & Scheminz) & Sibiriæ (*in monte* Schlangenberg (*fodinis, ſuperficiale, aut minoribus majoribusve partibus aliis foſſilibus potiſſimum quartzo inſperſum, ſulphuris majorem, quam quidem vitreum, portionem, & præterea pauxillum ferri, crebro etiam cupri continens, hinc igne tortum vix purum argentum relinquens, texturæ minutim conchaceæ, forma crebro communi, non raro cryſtallorum, utplurimum exilium, lentes, tabulas, interdum celluloſe connatas, vel priſmata hexaedra, nonnunquam longitudinaliter ſtriata, truncata aut pyramide tetraedra vel hexaedra terminata, interdum in rhombi ſpeciem aggregata referens.*

nitens. 12. A. nitens coloris plumbei ponderoſum lamelloſum fragile igne facile liqueſcens.

Renovanz v. alt. Geb. p. 137.

Habitat in Sibiriæ *monte* Schlangenberg, *petroſilicis fiſſuras explens, igne dum liquatur in duas partes cuprum quod vocant nigrum, & argentum vitreum abiens, poſteriori quoque, dum conteritur, ob majorem tenacitatem facile ſeparando, ut ex cupro vitrato, & argento vitreo conflatum eſſe videatur, aquam etiam fortem & ſalis ammoniaci ſpiritum cæruleo colore perfundens, dimidium ſui ponderis argentum,* $\frac{16\frac{1}{2}}{100}$ *cupri, interdum etiam pauxillum auri continens.*

rubrum 12. Rothgülden. A. ponderoſum tritura rubens intus parum nitens, igne decrepitans & paulo poſt arſenici vaporem eructando liqueſcens.

Syſt. nat. I. *p.* 183. *n.* 5. Argentum rubeſcens polyëdrum glanduloſum.

Syſt. nat. XII. 3. *p.* 149. *n.* 4. Argentum rubeſcens tritura rubra ♁, o–o.

Woltersd. miner. 29. Argentum rubrum diaphanum & opacum.

Cronſt. miner. §. 169. Argentum ſulphure, ferro & arſenico mineraliſatum.

Cartheuſ. miner. 76. Argentum mineraliſatum rubrum ſplendens.

Waller. miner. 315. Argentum arſenico, pauco ſulphure & ferro mineraliſatum, minera rubra ante ignitionem liquabili.

Waller. ſyſt. miner. 2. *p.* 333. *n.* 4. Argentum arſenico & ſulphure mineraliſatum, minera rubra ante ignitionem fuſibili.

Habitat in Sibiriæ (*in monte* Schlangenberg.) novæ Hiſpaniæ, *regni* Peruani & Chilenſis, Hiſpaniæ (*prope* Cazalla & Guadalcanal,) Galliæ (*prope* Allamont & fanum S. Mariæ,) Fürſtenbergiæ (*prope* Wittichen, Wirtembergiæ (*prope* Reinertsau & Schiltach,) Herciniæ (*prope* Clausthal, & S. Andreasberg,) Saxoniæ (*prope* Freyberg, Bræunsdorf, Oberſchœna, Gros, & Kleinvoigtsberg, Tſchopau, Ehrenfriedersdorf, Marienberg, Schneeberg, Annaberg, Raſchau & Johanngeorgenſtadt, Bohemiæ (*prope* Joachimsthal, Aberdam, Altwoſchiz, Jungwoſchiz, & Raticborziz,) Hungariæ (*prope* Cremniz, Schemniz, & *inter* Schemniz & Koenigsberg,) & Tranſilva-

niæ (*prope* Boiza) *fodonis, ſæpe cum pyrite, arſenico nativo, galena. argento vitreo, aliisque argenti mineris nunc ſuperſiciale, nunc minoribus particulis majoribusve maſſis quartzo creberrime & petroſilici inſperſum, cave penetrans & tingens, pro aliqua tantum parte aqua forti ſolvendum, quamvis argenti ad* $\frac{3}{5}$ *contineat, arſenico* ($\frac{27}{100}$) *. ſulphuri* ($\frac{13}{100}$)*, & interdum quoque exiguæ ferri portioni junčti, pellucíditatis gradu, colòris intenſitate, textura & forma externa varians, opacum ſubopacum (obſcurius tinctum.) diaphanum, (in cryſtallis) ſemipellucidum, aut pellucidum, coloris lætioris, lateritii, cinnabarini, aut inter ſanguineum & coccionellæ æmulum intermedii, vel obſcurioris, coccionellæ æmuli, kermeſini. adeo plumbei, & ferrei, ut tamen tritura ſemper rubenti, utplurimum compactum, texturæ planæ, conchaceæ vel inæqualis, rarius lamelloſum, forma creberrime communi, interdum cryſtallorum utplurimum aggregatarum, polyedra, vel priſmata hexaedra, interdum longitudinaliter ſtriata, ſæpe acicularia, alterutro vel utroque fine pyramide triedra, vel hexaedra terminata, faſciculata vel in reticuli ſpeciem diſpoſita, vel pyramides ſimplices triedras, frequentius hexaedras elongatas acuminatas, interdum ad apicem altera triedra auctas, ſparſim, faſciculatim aut ſtellatim congeſtas referentium.*

album. Weisgülden. 14. A. opacum metallice nitens compactum ponderoſum coloris dilute plumbei trituræ ſimilis, igni expoſitum ſulphuris arſenicique vaporem emittens, fragile.

Syſt. nat. I. *p.* 183. *n.* 4. Argentum albidum informe fragile.

Syſt. nat. XII. 3. *p.* 149. *n.* 5. Argentum mineraliſatum cupri arſenicalis tritura albida. ○—○, ♀, 🜍.

Woltersd. miner. 29. Argentum albo-griſeum ſplendens cupro mixtum.

Cronſt. miner. §. 170. 3. 2. Argentum arſenico cupro & ferro ſulphurato mineraliſatum.

Waller. miner. 315. *ſyſt. miner.* 2. *p.* 334. *n.* 5. Argentum arſenico, ſulphure & cupro mineraliſatum minera micante alba.

Cartheuſ. miner. 75. Argentum mineraliſatum albeſcens ſplendens.

Habitat in Saxoniæ (*prope* Freyberg,) Bohemiæ (*prope* Ratieborziz & Wobezniz,) Hungariæ (*prope* Cremniz, Schemniz & Kapnik,) Tranſilvaniæ (*prope* Facebai,) Siciliæ (*ad montem* Niſo & *prope* Fondachelli,) & Alſa-

tiæ (prope Markirch?) *fodinis, rarius ſuperficiale, quam aliis foſſilibus innidulans, vix ultra* $\frac{3}{20}$ *argenti continens, quod præter ſulphur & arſenicum cuprum, nonnunquam quoque ferrum ſibi junctum habet, tritura nitorem exaltans, in fragmenta indeterminata diſſiliens, texturæ utplurimum planæ, formæ frequentius communis, quam cryſtallinæ.*

91. PLUMBUM. Ex cæruleſcente album, ad aërem nigreſcens, malleabile, molle, mutum, ponderis ſpecifici = 11450, 1000.
♄

Igne facile liqueſcens, ſuperficie iridis coloribus ludente, ſenſim abiens in calcem primo albam, tum griſeam, flavam denique rubram, facilime in vitream convertendam.

Acidis omnibus ſolvendum, quibus colorem quidem nullum, at ſaporem dulcem impertitur colore albo iterum præcipitandum.

nativum. 1. Pl. nudum. *Syſt. nat.* I. *p.* 180. *n.* 1. *Muſ. Teſſin.* 62. *n.* 1.
Cartheuſ. miner. 65. Plumbum nudum granulatum.
Waller miner. 272. Plumbum nativum.
Habitat in Germania, *an unquam vere nativum?*

ochraceum. 2. Pl. pulverulentum nitoris metallici expers, aqua forti totum cum efferveſcentia ſolvendum, in prunis facile in plumbum metallicum reducendum.
Syſt. nat. I. *p.* 205. *n.* 5. XII. 3. *p.* 193. *n.* 7. Ochra plumbi pulverea albida.
Cartheuſ. miner. 66. Plumbum terreſtre ochraceum.
Cronſt. miner. §. 37. & 184. 1. A. 1. Terra calcarea cerusſa nativa intime mixta & Minera plumbi calciformi: pura pulverulenta.
Waller. ſyſt. miner. 2. *p.* 313. *n.* 13. a. b. Plumbum facie & conſiſtentia terrea.

Habitat rarius aliis foſſilibus, majoribus præſertim fruſtis inſperſum, quam ſuperficiei minerarum plumbi ſatiſcentium inhærens, aërem fixum continens, ut tamen 40 75 plumbi libras ex centum largiatur, non raro cretam ſibi immixtam habens, aut ſerri calce interſita (in Saxonia *prope* Freyberg *&* Tſchopau, *)* Hercynia *(prope* Wildenman, *) electoratu* Trevirenſi *(in* Langenbecke*) cinereo, aut (in* Scotiæ Leadhills*) cæruleſcente, aut (in* Angliæ Lathgilldalemine*) flavicante, aut in eadem fodina, in* Scotiæ Leadhills, *in* Sibiriæ *fodinis* Bereſowkenſibus*) flavo colore tinctum, alias* e. gr. *in* Sueciæ *monte* Chriſtieersberg, *in* Angliæ *fodini prope* Elton *&* Lathgilldale, *in* Hercynia *prope* Lettenbruchen, *in* Saxonia *prope* Johanngeorgenſtadt, *album, coram tubo ferruminatorio in carbone primo candens tum liqueſcens, ex ſolutione in aqua forti per muriæ & vitridi acidum forma ſedimenti albi, per zincum & ferrum forma metallice præcipitandum.*

terreum. 3. Pl. inconſpicuum intus terreum aqua forti cum efferveſcentia ſolvendum.

Waller ſyſt. miner. 2. *p.* 310. *n.* 10. *& p.* 313. *n.* 13. e. Plumbum terreſtre vel lapideum calcareo lapide mineraliſatum, & Terra plumbaria rubra.

Cronſt. miner. §. 38. *&* §. 184. 1. A. 2. Terra calcarea ceruſſa nativa intime mixta & Ceruſſa nativa indurata.

Habitat in Sueciæ *monte* Chriſtiersberg, *in* Angliæ *(præſertim comitatus* Derbyeiſis *prope* Winſter, *etiam prope* Alſtonmoor Cambriæ *& prope* Paris mountain, *)* Britanniæ *(prope* Poullacuen, *)* Lotharingiæ, Alſatiæ *(prope* Geroldseck,*)* Bipontii *(prope* Nohfelden, *)* Eifaliæ *(prope* Call,*)* Hercyniæ *(potiſſimum prope* Cellerfeld, *)* Saxoniæ *(prope* Freyberg, Tſchopau *&* Johanngeorgenſtadt *)* Bohemiæ *(prope* Mies *&* Neuſtadt, *)* Carinthiæ *(prope* Bleyberg, Tirolis, *)* Auſtriæ *(prope* Tirniz, *)* Hungariæ *(prope* Schemniz, *)* Transſilvaniæ *(prope* Saska*) &* Sibiriæ *fodinis, ſæpius maſſis majoribus aliis foſſilibus innidulens, rarius ſtillatitium, album, cæruleſcens aut cæruleum, quam formæ communis, cinereum, flavicans, ſulphureum, flavum, rubrum, rufeſcens, ſpadiceum, fuſcum, nigricans vel atrum.*

micaceum. 4. Pl. attactu pingue lamelloſum, nitore & colore ad argentum accedens.

v. Beſc. Geſ. berl. Naturf. 8. *p.* 204.

Habitat, utplurimum una cum plumbo ſpatoſo, in Hercyniæ *fodina* (Bergmanstroſt *prope* Andreasberg,) *lamellis creberrime pluribus ſibi incumbentibus.*

vitreum. 5. Pl. ſemipellucidum fragile texturæ nitoriſque vitrei, formæ communis.

Woulf. act. angl. 66. 2. n. 43. exp. 13.

Habitat, crebro una cum galena aut plumbo ſpatoſo aliis foſſilibus innidulans, in Angliæ (*provinciæ* Sommerſet & Platomine,) Britanniæ (Poullaouen,) Rhenanis (*prope* Lahr & Langenheke,) Hercyniæ (n. S. Joachim & Bleyfeld *prope* Cellerfeld,) Saxoniæ *prope* Tſchopau) Bohemiæ (*prope* Przibram) Carinthiæ (*prope* Bleyberg,) Hungariæ (*prope* Schemniz,) & Sibiriæ (Semenowenſi *ad montes* altaicos) *fodinis, cum aqua forti non effervescens, interdum diaphanum, texturæ nunc potius conchaceæ nunc feſtucariæ hyalinum, album, cinereum, vel ex vireſcente flavicans.*

ſpatoſum. 6. Pl. intus & extrinſecus nitens molle album in igne crepitans, cum acidis effervescens, formæ utplurimum cryſtallinæ.

Syſt. nat. XII. 3. *p.* 135. *n.* 9. Plumbum fragmentis ſpatoſis.

Wallersd. miner. 32. Plumbum ſpatoſum album.

Waller. miner. 275. Plumbum arſenicale mineraliſatum, minera ſpatiformi alba ſ. griſea.

Waller. ſyſt. miner. 2. *p.* 307 *n.* 6. Plumbum terreſtre vel lapideum, minera ſpathiformi alba vel griſea.

Cronſt. miner. §. 184. 1. A. 1. 2 & 3. Minera plumbi calciformis pura indurata.

Vogel miner. 166. Spatum plumbiferum.

Laboric act. pariſ. extran. 9.

Woul. act. angl. 66. 2. *n.* 43.

β) Plumbum ſpati cubici. *Muſ. Teſſin.* 64. *n.* 5.

Habitat rarius globuloſum aut celluloſum, quam cryſtallinum in Scotiæ (Leadhill's,) Angliæ (Mendiphilis,) Irlandiæ, Britanniæ (*prope* Poulaouen,) Burgundiæ, Lotharingiæ (*prope* La Croix,) Alſaciæ (*prope* Geroldseck,) Brisgoviæ (*prope* Freyburg) Naſſoviæ, *Ducatus* Montani (*in monte* Wildberg,) Hercyniæ (*notiſſimum* Bleyfeld & Glukſrad *prope* Cellerfeld,) Saxoniæ (*prope* Tſchopau, Schwarzemberg & Johanngeorgenſtadt,) Bohemiæ (*prope* Przibram,) Auſtriæ (*prope* Tirniz,) Hungariæ (*prope* Schemniz) & novæ Hiſpaniæ *fodinis, non raro,*

cupro vel ferro ochraceo, vel magneſia obductum nitoris interdum ſericei, molle, ut cultro ſecari queat, texturæ nunc lamelloſæ, nunc conchaceæ, nunc inter conchaceam & inæqualem intermediæ, in fragmenta indeterminata diſſiliens, ex centum libris 40-75 plumbi, largiens, quippe ſæpius præter plumbi calcem non niſi aquam & aërem fixum continens, rarius enſiforme, aut polyëdrum, aut tabulas tetraedras angulo 350 ſibi impoſitas, aut priſmata pentaedra, pyramide pentaedra terminata aut tetraedra obliquangula, quam hexaedra, interdum compreſſa, crebrius pyramide hexaedra aut tetraedra terminata, vel pyramides hexaedras, rarius ſolitarias, quam vario modo combinatas, faſciculatas aut in bacillos conjunctas, denuo in faſciculos aut pyramides aggregatas.

hyalinum. 7. Pl. hyalinum cum aqua forti efferveſcens molle in prunis crepitans, nitoris vitrei, formæ cryſtallinæ.

Syſt. nat. XII. 3. *p.* 135. *n.* 10. Plumbum (ſpatoſum) pellucidum hyalinum raſile efferveſcens.

Hacquet Schr. berl. Naturf. 2. *p.* 157, 158. *t.* 3. *f.* 4-6.

Habitat in Sibiriæ (Nertſchinskenſibus,) Temeſiæ (*prope* Dognaska,) Hungarie (*prope* Schemniz,) Bohemiæ (*prope* Bleyſtads & Pzibram,) & Saxoniæ (*prope* Tſchopau) *fodinis*, *nunc polyaedra, nunc priſmata tetraedra obliquangula faciebus alternis latioribus conſpicua, nunc pyramides hexaedras ſimplices, vel imperfectas duplices, aut pyramides duplices tetraedras interdum imbricatas referens.*

rubrum. 8. Pl. fulvum trituræ aurantiæ diaphanum utplurimum priſmata tetraëdra obliquangula referens, nitoris metallici expers.

Syſt. nat. XII. 3. *p.* 134. *n.* 8. Plumbum hexaëdrum rhombeum fulvum.

Cronſt. miner. §. 184. 1. A. 2. 4. Minera plumbi calciformis pura indurata rubra.

Waller. ſyſt. miner. 2. *p.* 309. *n.* 8. Plumbum ſulphure & arſenico mineraliſatum, minera ſpathiformi rubra.

Bindheim Schr. berl. Naturf. 10. *p.* 287. *ſqq.*

Habitat in Sibiriæ (Bereſowskenſibus,) Auſtriæ, (*prope* Annaberg,) Bohemiæ, (*prope* Bleyſtadt,) Saxoniæ, (*prope* Bockau,) Italiæ, (*prope* Call,) & Sabaudiæ, (*prope* Trapperte) *fodinis*, *præter plumbum* ($\frac{36}{100}$), *præter niccoli calcem parciſſimam, & aërem vitalem,*

molybdænæ acidum continet ; an interdum etiam pauxillum ſulphuris & arſenici ? an præter ſibiricum ſpecimen reliqua etiam colore certe pauliſper accedentia huc ſpectant ? analyſis docebit.

flavum. 9. Pl. flavum nitoris metallici expers formæ cryſtallinæ molle in igne crepitans aqua forti & muriæ acido fere totum ſolvendum, poſteriori ſolutione inſpicata cærulea.
v. Wulfen ap. Jacquin miſcellan. auſtriac. 2. *Vienn.* 1781. *& Abhandl. vom kærnthniſch. Bleyſpate. Wien.* 1785. *fol.*
Klaproth Schr. berl. Naturf. 10. *p.* 95. &c.
Habitat rarius in Scotiæ (Leadhill's,) Britanniæ (*prope* Poullaouen,) Burgundiæ (*prope* S. Prix ſous-Bouvray.) Hercyniæ (alten Teutſchen *prope* Cellerfeld,) Temeſiæ (*prope* Dognaska,) & Auſtriæ (*prope* Annaberg.) *quam in* Carinthiæ (*prope* Bleyberg) *fodinis, flavedinis & nitoris gradu mirifice varians, ſæpe galenæ innidulans, aut una cum pſeudogalena marmori inſidens, plumbi calce cum molybdænæ calce conjuncta ponderoſum, rarius priſmata hexaedra, quam cubos rhomboſve convexis faciebus interdum conſpicuos, vel tabulas tetraedras aut octaedras, in cellularum ſpeciem aggregatas referens.*

virens. 10. Pl. vireſcens ponderoſum in fragmenta indeterminata diſſiliens in pulverem flavum conterendum, aqua forti bulliente ſine efferveſcentia fere totum ſolvendum, in igne difficilius liqueſcens, & refrigeratum polyedra referens.
Syſt. nat. I. *p.* 180. *n.* 3. Plumbum nitri ſpatoſi utrinque truncati.
Syſt. nat. XII. 3. *p.* 134. *n.* 7. Plumbum cryſtallis hexaedro-priſmaticis utrinque truncatis o-o.
Waller. miner. 296. Plumbum arſenico mineraliſatum, minera ſolida cryſtalliſata viridi.
Waller. ſyſt. miner. 2. *p.* 308. *n.* 7. Plumbum terreſtre vel lapideum, minera ſpathiformi viridi.
Woltersd. min. 32. Plumbum ſpatoſum viride priſmaticum.
Cronſt. miner. §. 184. 1. A. 2. 3. 2. Minera plumbi calciformis pura indurata cryſtalliſata viridis.
Habitat in novæ Hiſpaniæ, Sibiriæ (*prope* Catharinenburg.) Scotiæ (Leadhill's) Angliæ (*prope* Monegash & Elton,) Britanniæ (*prope* Huelgoat,) Lotharingiæ (*prope* La Croix,) Alſatiæ (*prope* Erlenbach,) Briſgoviæ (*prope* Freyburg,) Bohemiæ (*prope* Mies & Przibram,) Saxoniæ (*prope* Johanngeorgenſtadt, Tſchopau, Schwarzenberg,

berg, Freyberg, Kleinvoigtsberg, Groſschirma.) Hercyniæ (*prope* Clausthal & Cellerfeld) & rhenanis (*prope* Rheinbreidenbach) *fodinis, cum plumbi calce præter pauxillum calcis ferreæ phoſphori acido conjuncta, ita ut cum carbonum pulvere vaſis incluſum & igne agitatum, verum phoſphorum, ex 200 libris 9 libros exhibeat, molle utplurimum, diaphanum, interdum ſubopacum, in fragmenta indeterminata diſſiliens, texturæ inæqualis & minutim granularis, viredine utplurimum olivacea, nonnunquam pſittacina aut graminea aut in flavum rubrumve colorem vergente, rarius ſuperficiale, quam particulis minoribus maſſisve majoribus aliis foſſilibus inſperſum, rarius forma communi aut ſtillatitia conſpicuum, quam cryſtallorum variæ magnitudinis extrinſecus nitentium & lævium nunc parallelepida exilia, ſæpius priſmata hexaedra, crebro alterutro vel utroque fine pyramide hexaedra terminata, vario modo cohærentia vel in bacillorum ſpeciem aggregata aut pyramides hexaedras aciculares acuminatas, ſperſas vel in muſci ramoſi ſpeciem aggregatas referentium.*

jaſpideum. 11. Pl. fuſcum durum opacum formæ communis.
v. Fichtel Karpath p. 348.
Habitat in fodina Temeſienſi *prope* Saska, *ex centenario* 36 *libras plumbi &* 10 *argenti drachmas, cujus ſingulæ ſemilibræ quatuor auri denarios continent, largiens.*

fuliginoſum. 12. Pl. nigrum inconſpicuum inquinans, aqua forti non totum ſolvendum, igne agitatum ſulphuris flammam vaporemque emittens & refrigeratum granum polyedrum relinquens.
Karſt. lesk Mineralkab. 1. *p* 489. *n.* 3, 4. Plumbum ochraceum brunum & nigrum.
Laumont ap. la Methene journ. de phyſ. 1787. 1. *p.* 383.
Habitat in Saxoniæ (*prope* Tschopau & Freyberg,) Britannia *prope* Huelgoat, *præter plumbi calcem & phoſphori acidum ſulphur continens, utrum propria ſpecies, An potius galena fatiſcens, plumbo virenti inſperſo fœta?*

arſenicum. 13. Pl. ex vireſcente flavum, nitoris metallici expers carbonibus inſperſum non decrepitans, at ebulliens, arſenici fumum eructans & grana polyedra relinquens.
Sage ap. la Mether. journ. de phyſ. 1789. 2. *p.* 53.
Fourcroy annal. de chim. 2. 1789. *p.* 29.

Habitat in Alvernia *prope* Roſieres, *præter plumbi calcem, & phoſphori acidum & arſenici acidum calcemve continens, quartzo ferruginoſo innidulans nunc formæ communis nunc priſmata hexaedra in globos imperfectos aggregata referens.*

arſenicatum. 14. Pl. inconſpicuum in prunis facile candens, difficilius liqueſcens, fortiori demum arſenici fumum eructans & plumbum metallicum relinquens.

Prouſt. & Sage ap. la Metherie journ. de phyſ. 1787. 1. *p.* 394. & 1789. 2. *p.* 53.

Habitat in Burgundiæ & Andaluſiæ *fodinis, poſt liquationem refrigeratum cryſtallinæ formæ expers, neque colorem penitus immutans nunc pulverulentum & flavum galenæ ſuperficiem obducens nunc inſigni coloris viridis & flavi varietate, a gramineo ad cereum uſque, ut etiam nitore & pelluciditatis gradu ceram æmuletur, forma granulorum aggregatorum interdum galenæ nucleum includentium, quartzo & feldſpato innidulans.*

duplex. 15. Pl. inconſpicuum prunis inſperſum arſenici ſulphurisque vaporem & flammam eructans.

Sage ap. la Meiher. journ. de phyſ. 1789. 2. *p.* 53.

Habitat in Alvernia *prope* Roſieres, *plumbi calce duobus acidis, arſenici & vitrioli juncta.*

vitriolatum. 16. Pl. albidum nitoris metallici expers fixiſſimum igne ſine ſtrepitu & ebullitione liqueſcens cum acidis non effervеſcens.

Gadolin chem. Annal. 1778. 1. *p.* 147.

Prouſt. ap. la Mether. journ. de phyſ. 1787. 1. *p.* 394.

Habitat in Scotiæ (*prope* Strontian,) Angliæ (*in* Angleſea,) & Andaluſiæ *fodinis, difficilime aqua ſolvendum, album vel canum, magis minusve pellucidum nunc ſuperficiei galenæ croſæ adſperſum, ex qua fatiſcente ortum nunc cryſtallorum forma comparens, difficilius plumbum ſuum dimittens.*

corneum. 17. Pl. album nitoris metallici expers igne facilime liqueſcens, paulo fortiori totum avolans.

Spielmann journ. de phyſ. 1774. *Dec. p.* 455.

Ferber n. act. Petrop. 3. *p.* 269.

Habitat rarius in Lotharingiæ (*prope* la Croix) & Bohemiæ (*prope* Miez & Przibram) *fodinis.*

Saturnites 18. Pl. nitoris metallici expers igne facile liqueſcens & avolans poſt liquationem refrigeſcens acicularum formam aſſumens cum plumbo coire renuens.

Monnet apud la Mether. journ. de phyſ. 1785. 1. *p.* 163.

Habitat in Britannia *prope* Poullaouen. *An foſſile revera diſtinctum? an hujus generis?*

Plumbago. 19. Pl. metallice nitens igne facile cum ſulphuris vapore & flamma liqueſcens & meracum plumbum ſine argento relinquens.

Cronſt. miner. §. 185. Plumbum ſulphure mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 305. *n.* 5. Plumbum ſulphure & arſenico mineraliſatum, minera ſolida plumbeo colore fere malleabili.

β) *Karſt. Lesk. Mineral kab.* 2. *p.* 488. *n.* 2. Plumbum mineraliſatum cæruleum.

Habitat in Norwegiæ *(comitatu* Jarlsberg,) Sueciæ *(prope* Hallefors,) Scotiæ Leadhill's,) Angliæ *(prope* Matlok *&* Aſhover,) Hiſpaniæ *(prope* los Aranios,) Siciliæ *(prope* Novarra,) Carinthiæ *(in monte* Rabl *& prope* Bleyaerg *&* Bleyburg,) Hercyniæ *(in monte* Rammelsberg, *prope* Cederfeld *&* Clausthal, *in* Weſtphaliæ, *β) colore inter plumbeum & cæruleum indicum intermedio diſtinctum, in* Saxoniæ *(prope* Tſchopau) *fodinis, utplurimum coloris & nitoris chalybei vel plumbei, intus parum nitens, extrinſecus interdum ſpeculi ad inſtar crebrius compactum, quam radiatum aut lamelloſum, crebrius in fragmenta indeterminata, quam cubica diſſiliens, utplurimum formæ communis, interdum (β) priſmata hexaedra faſciculata referens, præter plumbum nihil niſi ſulphur continens.*

Galena. 20. Pl. nitoris & coloris plumbei ponderoſum molle in grana
Bleyglanz. ſecedens, in fragmenta cubica diſſiliens, igne cum vapore flammaque ſulphuris liqueſcens & in vitrum mutato plumbo argenti granum relinquens. Fig. 19.

Syſt. nat. I. *p.* 120. *n.* 4. XII. 3. *p.* 133. *n.* 3. Plumbum mineraliſatum, particulis cubicis. ♃, ♄.

Cronſt. miner. §. 186. Plumbum argento ſulphurato mineraliſatum.

Waller. miner. 242. Plumbum ſulphure & argento mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 302. *n.* 2. Plumbum ſulphure mineraliſatum & argento mixtum, minera teſſulis majoribus minoribus vel granulis micante.

Woltersd. miner. 188. Plumbum cæſio-griſeum ſplendens teſſulatum.

β) *Syſt. nat.* XII. 3. *p.* 133. *Cartheuſ. miner.* 66. Plumbum (compactum) mineraliſatum continuum albo-cæruleſcens nitens.

γ) *Syſt. nat.* XII. 3. *p.* 132. *n.* 2. Plumbum (cryſtallinum) teſſellato-cryſtalliſatum.

Waller. ſyſt. miner. 2. *p.* 304. *n.* 3. Plumbum ſulphure mineraliſatum argento mixtum, colore albo-cæruleſcente, cryſtalliſatum.

δ) *Syſt. nat.* I. *p.* 180. *n.* 5. XII. 3. *p.* 133. *n.* 4. Plumbum mineraliſatum punctis ſuboccultatis ♤, ☽.

Waller. miner. 297. *ſyſt. miner.* 2. *p.* 310. *n.* 11. Plumbum minera galenica mineraliſata lapidi inſenſibiliter immixta.

Woltersd. miner. 32. Plumbum cæſio-griſeum ſplendens punctatum.

Habitat frequentiſſimum in Sibiriæ & Europæ *fere omnis fodinis, rarius ſuperficiale, quam minoribus particulis* (δ) *majoribusve maſſis aliis foſſilibus, potiſſimum calcariis innidulans, ſæpe cum pyrita, cupro fulvo, ferro ſpatoſo, pſeudogalena obvium, intus multum nitens, præter plumbum (ad* $\frac{41}{50}$*) & ſulphur argenti quoque minorem majoremve copiam* ($\frac{1}{1000}-\frac{1}{25}$)*, rarius (*e. gr. in Tranſilvaniæ & Hungariæ *fodinis) auri ſimul portiunculam continens, lamelloſum, ut tamen textura interdum ad fibroſam aut* (β) *compactam accedat, lamellis interdum ita diſpoſitis, ut pars ſuperficiei obumbretur, ſæpe formæ communis, ſuperficie interdum ſpeculi inſtar nitente aut ſulcis longitudinalibus vel cancellatis exarata vel veſtigiis hexaedro-pyramidalibus aut cubicis aut ſphæricis aut cellulis tetraedris inæquali vel arbuſcularum imaginibus picta, interdum quaſi eroſum vel quaſi liquatum, ſtillatitium, botryoides, fruticulos, arbuſculas, cryſtallos* (γ)*, utplurimum exiles, rarius ſolitarias & vagas, arenæ non nunquam miſtas, quam aggregatas & connatas, faciebus ſphærice convexis aut excavatis interdum conſpicuas & quidem rhombos vel cubos perfectos* (Fig. 19.) *aut* (Fig. 20.)*, ad angulos omnes truncatos aut pyramides tetraedras, ut plurimum* (Fig. 23.) *duplices, non raro ad apices* (Fig. 24.)*, interdum quoque ſimul ad angulos* (Fig. 25.) *truncatas, aut priſmata hexaedra pyramide triedra vel tetraedra interdum terminata referens.*

ferriferum. 21. Pl. metallice nitens, cum ſulphuris vapore & flamma ſed galena difficilius liqueſcens & fortiori igne vitrum nigrum exhibens.

Cronſt. miner. §. 187. Plumbum, ferro & argento ſulphurato mineraliſatum.

β) *Syſt. nat.* XII. 3. *p.* 134. *n.* 6. Plumbum (baſalticum) mineraliſatum, faſciculis decuſſatis ſtriatum.

Waller. miner. 294. Galena ſtriata.

Habitat in Sueciæ *fodinis* (*monte* argenteo occidentali, (β) *in* Dalecarliæ Skinshytta,) *pariter in fragmenta cubica diſſiliens & in grana ſecedens, præter plumbum & ſulphur ferrum argentumque continens.*

ſtibiatum. 22. Pl. coloris & nitoris plumbei fibroſum in cruſtas ſecedens.

Syſt. nat. XII. 3. *p.* 133. *n.* 5. Plumbum mineraliſatum fibroſo-ſtriatum ♁, ♄, ♃.

Cronſt. miner. §. 188. Plumbum antimonio & argento ſulphurato mineraliſatum.

Wolterſd. miner. 32. Plumbum cæſio-griſeum ſplendens radiatum.

Waller. ſyſt. miner. 2. *p.* 305. *n.* 4. Plumbum antimoniali minera mineraliſatum, argento mixtum.

Habitat in Sibiriæ (Nertſchinskenſibus,) Sueciæ (*prope* Sahlberg,) Hercyniæ (*potiſſimum prope* Lautenthal,) Hungariæ (*prope* Schemniz) & Hiſpaniæ (*prope* Synares) *fodinis, igne agitatum ſulphuris vaporem flammamque emittens, præter plumbum quippe ſulphur, ſtibium & argentum continens, cruſtis, in quas ſecedit, rectis aut incurvis, craſſioribus vel tenuioribus, fibris craſſioribus vel ſubtilioribus, parallelis vel faſciculatis.*

hercynicum. 23. Pl. cum cupro & ſtibio, pauciori ferro & ſulphure, pauciſſimo argento conjunctum, metallice nitens.

Klaproth chem. Annal. 1790. 1. *p.* 295. Weisgülden.

Habitat in Hercyniæ *fodina* Andreascreuz (*prope* Andreasberg,) *in* 100 *partibus ultra* 34 *plumbi*, 16¼ *cupri*, 16 *ſtibii*, 13¼ *ferri*, 10 *ſulphuris*, 2¼ *argenti continens.*

cornubicum. 24. Pl. cum ſtibio, pauciori cupro & ſulphure, pauciſſimo ferro conjunctum, metallice nitens.

Klaproth chem. Annal. 1790. 1. *p.* 294. Fahlerz.

Habitat in Cornubiæ *fodina prope* Nanslo, *dimidia fere parte ex plumbo conſtans, præterea in* 100 *partibus* 21 *ſtibii, ultra* 13 *cupri,* 7 *ſulphuris & vix ultra unam ferri continens.*

Sabaudicum. 25. Pl. metallice nitens igni expoſitum arſenici fumum eructans.

C. de Razoumowsk. excurſ. dans les mines du Haut-Faucigny. p. 15.

Habitat in Sabaudiæ *fodinæ aux* Trappettes, *externa facie ad cuprum vitratum accedens, præter plumbum, ſtibium & arſenicum continens.*

92. HYDRARGYRUM. Coloris argentei, nitoris ſatis tenax, frigore demum enormi ſolideſcens, tum malleabile, ponderis ſpecifici = 14110:1000.

☿

Igne, eo quo plumbum liqueſcit, paulo majore in vapores reſolvendum.

Acidis pluribus facile ſolvendum, colorem nullum, mineralibus vero acrimoniam majorem impertiens, ex omnibus per cuprum nitoris metallici particeps præcipitandum.

virgineum. 1. H. nudum liquidum ponderoſiſſimum coloris nitorisque argentei.

Syſt. nat. I. *p.* 171. *n.* 1. XII. 3. *p.* 119. *n.* 1. Hydrargyrum nudum fluidum.

Woltersd. miner. 26. Hydrargyrum nudum nativum.

Wallier. miner. 218. Hydrargyrum nativum.

Waller. ſiſt. miner. 2. *p.* 148. *n.* 1. Mercurius virgineus.

Act. Upſal. 1720. *n.* 3. *p.* 55. Argentum vivum in galena.

Cronſt. miner. §. 215. Mercurius nativus virgineus.

Habitat in Sueciæ (*prope* Sahlberg,) Hiſpaniæ (*prope* Almaden,) Hetruriæ (*prope* Levigliano *& in monte* di S. Fiora,) Carnioliæ (*prope* Idriam,) Bohemiæ, Palatinatus (*prope* Wolfſtein *&* Mœrsfeld) *&* Bipontii (*in monte* Stahlberg *& prope* Moſchellandsberg) *fodinis, in poſterioribus mali ominis, globulorum forma foſſili innidulans & ſola jam agitatione eliciendum.*

Amalgama. 2. H. ponderoſum coloris nitoriſque argentei ſolidiuſculum igne agitatum argentum purum relinquens.
Cronſt. miner. §. 215.
Habitat rarius maſſis majoribus quartzo, petroſilici ſpato innidulans, quam ſuperficiei aliarum hydrargyri minerarum inſidens, in Hungariæ (*prope* Zlana,) Bipontii (*prope* Moſchellandsberg & *in monte* Stahlberg) & Sueciæ (*prope* Sahlberg) *fodinis, utplurimum ſatis fragile & formæ communis, interdum polyedra exilia oblonga referens.*

larvatum. 3. H. terreum ſubponderoſum igne hydrargyrum dimittens.
Habitat in Sicilia (*prope* Buſachino) *humo, in* Hiſpania (*prope* Alicarle) *arenæ*, Carniolia (*prope* Idriam) *ardeſiæ ſpeculi inſtar nitenti, argillæ, margæ intertritum, quæ omnia igni in vaſis clauſis expoſita, quamvis nullo alio corpore adjecto, hydrargyrum largiuntur, quod oculis non obvium forſan calcis forma continent.*

ſublimatum. 4. H. nitoris metallici expers igne totum fere forma fumi albi, ſine vapore flammave ſulphuris avolans.
Woulfe exp. made in ord. to aſcert. th. nat. of ſom. ſubſt. Lond. 1777. 4.
Suckow Beſchr. des natürl. Turp. &c. Mannh. 1782. 8.
Baumer hiſt. merc. corn. Haſſiac. natural. &c. Gieſs. 1785.
Habitat in Haſſiæ, (*olim*) Palatinatus (*prope* Wolfſtein & Moersfeld) & Bipontii (*prope* Moſchellandsberg) *fodinis, utplurimum una cum nativo hydrargyro cum vitrioli & muriæ acido conjuncto, ita ut nunc hoc, nunc illud dominatur, in foveolis matricis, rarius pulverulentum, quam induratum, in cruſtas concentricas aliquando ſecedens, forma communi aut globulorum ſolitariorum vel aggregatorum vel cryſtallorum exilium ſpeculi inſtar nitentium, rarius priſmata hexaedra, quam cubos in ſphæras aut majores cubos aggregatos referentium, viride, vireſcens citrinum, flavum, flaveſcens, album, canum, cinereum, ex cinereo atrum aut nigrum.*

Æthiops. 5. H. nigrum inconſpicuum igne facile liqueſcens & paulo fortiori totum cum vapore flammaque ſulphuris avolans.
Ferber n. act. Petrop. 3. *p.* 268.
Hacquet Beytr. z. chem. Annal. vol. 3. *p.* 481.
Habitat in Naſſoviæ (*prope* Kirchheim) & Carnioliæ (*prope* Idriam) *fodinis, in his utplurimum una cum cinnabari lamelloſa.*

Cinnabaris. Zinnober. 6. H. ponderoſum nitoris metallici expers rubrum tritura coccinea, igne facile liqueſcens & paulo fortiori totum cum vapore flammaque ſulphuris avolans.

Syſt. nat. I. *p.* 171. *n.* 3. XII. 3. *p.* 119. *n.* 3. Hydrargyrum mineraliſatum pyriticoſum fibroſum. ♆.

*Waller.miner.*219. Hydrargyrum ſulphure mineraliſatum.

Waller.ſyſt. miner. 2. *p.* 150. *n.* 2. Mercurius ſulphure mineraliſatus minera rubra.

Woltersd. miner. 26. Hydrargyrum rubrum purpureum tinctorium.

Cartheuſ. miner. 62. Mercurius mineraliſatus ſtriatus ruber ſtriis longitudinalibus ſplendentibus.

Cronſt. miner. §. 216. Mercurius ſulphure mineraliſatus.

Dale pharmac. 35. *Pharm. Wart.* 10. Cinnabaris nativa.

β) *Syſt. nat.* XII. 3. *p.* 119. *n.* 2. Hydrargyrum (cryſtallinum) cryſtalliſatum cubicum.

Habitat in regno Peruano (*prope* Guancavilla) & Chilenſi (*in provinciis* Coquimbo & Quillota,) nova Hiſpania (*prope* Chilapan,) Japonia, Sina, Sibiria (*prope* Nertſchinsk,) Tranſilvania (*prope* Bobava & Dumbrawa,) Temeſia, Hungaria (*prope* Schemniz & Kraſznakorka,) Bohemia (*prope* Pirgliz, Weſſeriz, Horzowiz, Joachimſthal, Aberdam, Commarow, Swata & Beneſchau,) Stiria (*prope* Eiſenerz,) Carinthia (*prope* Paternion,) Tiroli, Garniolia (*prope* Neumarktl, Stockenvoje, Idria,) Venetorum *terris*, Hetruria (*prope* Levigliano & *in monte* di S. Fiora,) (*parcius*) Sicilia (*in monte* Niſo, *prope* Lentini, Marſala, Buſachino, Paterno & Aſſoro,) Hiſpania (*prope* Almadon, Alicante, Valentia & S. Philippi,) (*parciſſime*) Scotia, (*parcius*) *in* Normannia (*prope* Menilot) & Delphinatu, Palatinatu (*prope* Wolfſtein, Mœrsfeld, Pozberg, Kazbach, Nak, Lemberg, Grind & Spizenberg,) Bipontii (*prope* Verbach, Bingert, Caudebach, Esweiler, Hinsweiler, *potiſſimum in monte* Stahlberg & *prope* Moiſchellandsberg,) Naſſovia (*prope* Kircheim, *aliis terris* Rhenanis (*prope* Gaubgrebweiler & Grumbach,) *parciſſimum in* Saxonia (*prope* Hartenſtein & Schneeberg) & Hercynia (*prope* Wiede,) *in grana ſecedens, aquæ & acidis, non perinde ſalibus alcalinis reſiſtens nunc ſuperficiei modo adſperſum nunc per puncta, lineas, venas, arbuſcularum ſpecie inſperſum aut totum foſſile, creberrime argillam, petroſilicem, quartzum tinctu ſuo perfundens nunc maſſis majoribus obvium, ſolum ex

hydrargyro & ſulphure conflatum, ut illius ad $\frac{4}{5}$ *&* $\frac{7}{8}$ *uſque exhibeat, coccineum aut intermedii inter coccineum & coccionellæ aut inter coccineum & kermeſinum tinctus aut kermeſinum aut obſcure rubrum, crebrius lamelloſum, quam compactum aut parallele vel ſtellatim fibroſum, interdum pulverulentum, friabile aut inquinans, frequentius duriuſculum, ſuperficie nunc lævi nunc aſpero, ſtriata, decuſſatim ſulcata vel celluloſa, forma creberrime communi, interdum tubulorum cohærentium, hemiſphæriorum aut globulorum aut cryſtallorum exilium magis minusve diaphanorum, utplurimum aggregatarum ſæpe ſtriatarum, frequentius ad rubinum colore ſuo accedentium, quam coccinearum nunc lentes nunc pyramides triedras ſimplices aut duplices aut tetraedra, duplices nunc priſmata triedra pyramide triedra terminata aut tetraedra aut hexaedra nunc (β) cubos nunc polyedra referentium.*

hepaticum. 7. H. ponderoſum formæ communis igni expoſitum cum flamma cærulea exardeſcens, at magnam ſui partem relinquens.

Brünnich ap. Cronſt. miner. 216. B. 1.

Habitat in Carnioliæ (*prope* Idriam) & Naſſoviæ (*prope* Kircheim) *fodinis, hydrargyro dives, at coloris rarius coccionellæ æmuli, ſed utplurimum, etiam in tritura obſcurioris quam cinnabaris, hepatici vel in plumbeum vergentis aut ab interſperſis cupri calcibus, paſſim cærulei aut viridis, compactum, rarius ſchiſtoſum.*

cupriferum. 8. H. ex atro cinereum texturæ vitreæ, igni expoſitum crepitans flammamque ſulphuris emittens & diu ſatis agitatum cupri granum in carbone relinquens.

Syſt. nat. I. *p.* 171. XII. 3. *p.* 120. *n.* 5. Hydrargyrum (crepitans) petroſum ♆, ♀.

Cronſt. minereal. §. 217. Mercurius ſulphurato cupro mineraliſatus.

Waller. ſyſt. miner. 2. *p.* 151. *n.* 3. Mercurius ſulphure & cupro mineraliſatus, minera nigreſcente.

Habitat in Bipontii (*prope* Moſchellandsberg) & Sumatræ *fodinis, ponderoſum, tritura rubra, ardeſiæ, talco, quartzo, plumbi mineris innidulans, præter hydrargyrum ſulphur & cuprum continens.*

glandulo-ſum. 9. H. nitoris metallici expers rubrum tritura coccinea igni expoſitum cum flamma ſulphurea arſenici fumum eructans.
Syſt. nat. I. *p.* 171. Hydrargyrum rubrum arſenicale.
Syſt. nat. XII. 3. *p.* 120. *n.* 4. Hydrargyrum mineraliſatum arſenicale ſolidum. o=o.
Cartheuſ. miner. 63. Mercurius mineraliſatus continuus ruber ſplendens.
Habitat in Japonia, *præter hydrargyrum & ſulphur arſenicum continens.*

phlogiſticum. 10. H. obſcurum opacum ponderoſum fragile igni expoſitum flammam & fumum fœtidum eructans.
Brünnich ap. Cronſt. miner. §. 216. B. 2.
Habitat in Carnioliæ (*prope* Idriam) & rhenanis *fodinis, ex* 100 *libris* 9–50 *hydrargyri largiens. An vere diſtincta ſpecies?*

fœtens. 11. H. coccineum lamelloſum ſubpellucidum tritura hepar ſulphuris olens.
v. Born chem. Annal. 1789. 1. *p.* 316.
Hacquet Beytr. z. chem. Annal. vol. 3. *p.* 480.
Habitat in Idriæ *fodinis, petroſilici inſidens, ex hydrargyro, ſulphure & terra calcaria conflatum.*

93. AURUM. ☉ Coloris flavi, nitoris tenaciſſimum mutum, ſummopere malleabile & ductile, ponderis ſpecifici = 19540 : 1000.

Igne fixum, neque ſulphure, neque plumbi vitro domandum, cupro facilius liqueſcens & dum liquatur cyaneo colore refulgens.

Aqua regia colore flavo ſolvendum, calcibus ex hac præcipitatis vitra colore purpureo tingentibus.

nativum. 1. St. nudum ponderoſiſſimum ductile viſibile matrici inhærens.
Syſt. nat. I. *p.* 184. *n.* 1. XII. 3. *p.* 151. *n.* 1. Aurum nudum.
Woltersd. miner. 29. *Cronſt. miner.* §. 164. *Waller. ſyſt. miner.* 2. *p.* 355. *n.* 1. Aurum nativum.

Cartheuſ. miner. 77. Aurum nudum genuini coloris.
Waller. miner. 321. Aurum nativum radicatum.
Habitat in Africæ *regionibus pluribus, præſertim littore occidentali, in regno* Peruano & Chilenſi *(prope* Copiapo, Quaſco, Coquimbo, Petorca, Ligua, Tiltil, Putaendo, Caren, Aihue, Chibato&Huilli-Patagua,) nova Hiſpania *(prope* Mexquital,) Java *(in montibus* Parrang & Megeneddon,) Sibiriæ *montibus, potiſſimum* Kolywanicis & altaicis, e. gr. Schlangenberg & *jodina* Semenowſchi,) Tranſilvania *(prope* Trzeſtian, Abrubanya, Staniza, Herczigan, Ginel, Boiza, Ololapos, Abrudzellar, Gerter, Bucſum, Facies, Salatna, Botkura, Cajonell, Ruda, Coiczum, Facebai, Nagyag, Kirnik, Trojka, *in montibus* Volcai, Voroïspatak & Rota) Temeſia *(prope* Dognaska,) Hungaria *(prope* Kapnik, Magurka, Andreasfulva, Ujbanya, Bakabanya, Rimazombat, Deutſchlipſch, Bugyanz, Kœnigsberg, Cremniz, Roſenau, Schmœlniz, Hoderitſch & Schemniz,) Bohemia *(prope* Eula, *rarius prope* Schwarzenthal & Bergreichenſtein) & Salisburgo *(prope* Ramingſtein, *etiam prope* Fuſch, Muhrwinkel & *in valle* Zillerthal,) *parcius in* Lapponia *(prope* Swappawari,) Suecia *(prope* Ædelfors & Riddarhytta.) Saxonia *(prope* Reichmansdorf, Ottendorf, Bræunsdorf, Munzig, Schwarzenberg, Johanngeorgenſtadt & *ad montem* Rabenberg.) Tirolli *(valle* Zillerthal,) Carinthia *(prope* Groskircheim & *in* Goldzeche,) Stiria *(prope* Maudling,) Haſſia *(prope* Herzhauſen & Buchenberg,) Delphinatu *(prope* la Gardette,) Valeſia, Pedemontio *(in valle* Aoſta)& Hiſpania, *utplurimum terræ ſuperficiei ſatis vicinum, rariſſime omni alieno metallo, argento, cupro, ferro liberum nunc pallidius nunc ſaturatius flavum, interdum a cupri majori copia inhærente fulvum nunc ſuperficiale aut bracteis tenuioribus aliis foſſilibus adhærens nunc flammarum, venarum, granorum ſpecie vel maſſis quoque majoribus ſpato, quartzo, gypſo humo, argillæ, trapezio, gneiſſo fornacum aut metallifero, feldſpato, petroſilici, jaſpidi, pyritæ, molybdænæ, arſenico nativo, ſtibio communi, pſeudogalenæ, galenæ, ferri argentive mineris inhærens, forma communi aut tabaci hiſpanici more matrici adſperſum, ſulcis decuſſantibus in ſuperficie exaratum, celluloſum, flocçoſum, dentium, ramorum, ſetarum, capillorum, cryſtallorum quoque exilium, ut plurimum aggregatarum tabulas hexaedras priſmata rectangula tetraedra in aciem terminata*

aut imperfecta utrinque pyramide tetraedra terminata, cubos, pyramides ſimplices triedras aut duplices tetraedras referentium ſpecie conſpicuum.

arenarium. 2. A. granorum micularumque auri colore fulgentium ſpecie arenæ granis mixtum.

Syſt. nat. I. *p.* 208. *n.* 9. XII. 3. *p.* 198. *n.* 12. Arena (aurea) auri difformis.

Waller. miner. 208. Aurum nativum terræ & arenæ inhærens ſolutum.

Waller. ſyſt. miner. 2. *p.* 358. *n.* 5. Aurum nudum vel veſtitum diverſo colore terræ vel arenis inhærens.

Cronſt. miner. §. 164. 1. 4. Aurum nativum lotum.

Habitat in Americæ *meridionalis inſularumque oppoſitarum fluviis plurimis*, Africæ Nilo, Nigro, Zair, Axime & Senegal, Arabiæ Artemidoro & *aliis*, Cappadociæ Thermodoonte, Caramaniæ Hynami, Bithyniæ Cryſorrhoo, Mingreliæ Phaſi, Lydiæ Hermo & Pactolo, Bactriæ Octro, Indiæ Gange & *aliis*, *fluviis inſulæ* Timor, *regni* Tibetani Altancol, Sinenſis Junam, Ruſſici Danà, Thraciæ Hebro, Tranſilvaniæ Burcia, Avanjos, Maroſch, Temeſiæ Nera & Meniſch, Hungariæ Grieſche & *aliis*, Poloniæ Warta, Sileſiæ Bober, Baruſch, S. Georgenbach, Goldbach, Goldbrunn, Piel, Kazbach, Zaks & Iſari, Bohemiæ Saſſawa, Niſſa, Saxowa, Ottawa, Planiz, Mulda, Albi, Gizera, Worliz, Moraviæ Viadro, Germaniæ Danubio & (*jam in* Alſatia) Rheno, Auſtriæ Waga, Carnioliæ Savo, Carinthiæ Gravo, Salisburgi Mura & Salza, Brixiæ Sila, Tirolis Atheſi & Dravo, Bavariæ Fürd, Silvæ *nigræ* Goldbrunn, Franconiæ Cronach, Goldbrunn & Sala, *montis piniferi* Egra, Moeno & Rudach, Vennonum Fontana, Luſatiæ Eliſtro, Goldbach & Sprea, Saxoniæ Iliſſo, Voigtlandiæ, Weida, Seiffenbach, Gœlſch, Gera & Alſtera, Thuringiæ Schwarza & Unſtruth, Haſſiæ Edera & Oerz, Hercyniæ Helm, Weſtphaliæ Amaſo, Sailla *in* Moſellam *exeunte*, Cevennenſium Cevis & Gardonis, Burgundiæ Dubis, Pyrenæorum Ariega, Benagues, Ferriet, Garonna & Salata, Hiſpaniæ Tago, Italiæ Pado, Rhætiæ Adda & Oeno, Helvetiæ Amma, Arola, Goldbach & Urſa, Valleſiæ Dala & Rhadano, *magis minusve ponderoſum, aurique nunc majorem nunc minorem copiam, ſæpius adeo exiguam continens, ut operam in eo extra-*

hendo collocatam non compenſet, auri particulis per hydrargyrum vel aquam regis eliciendis nunc majoribus nunc minoribus, interdum pulvereis.

larvatum. 3. A. ſubtiliſſimis particulis aliis foſſilibus intermixtum, hydrargyri ope eliciendum.

Habitat in Sibiriæ (*monte* Schlagenberg, *etiam prope* Onaburg & *in terra* Tſchudarum,) Tranſilvaniæ (*prope* Trojka, Gertes, Boiza, Kisbanya, Nagyag, Salatnam. Cajoneil, Stuniza, Facebai, Fuſes, Ginel Herczigan, Kirnick, Barkura, Criczum, Ruda, *montium* Rota,) Hungariæ (*prope* Kapnik, Bakabanya, Schemniz, Hoderitſch, Cremniz, Magurka,) Sileſiæ (*prope* Reichenſtein,) Bohemiæ (*prope* Eula & Schwarzenthal,) Saxoniæ (*prope* Munzig, Schwarzenberg & Braeunsdorf,) Sueciæ (*prope* Edelfors) Carinthiæ (Goldzeche & *prope* Groſkirchheim,) Salisburgi (*ad montem* Rathhausberg) & Americæ *fodinis, creta, ſpato, argilla, porphyrio ſchiſtoſo, jaſpide, quarzo, ligno ſubterraneo, ſtibio communi arſenico nativo & albicante, pſeudogalena, galena, cinnabari, ferro ſpatoſo & ſulphurato, cupri argentique mineris variis & pyrite potiſſimum matricem præbentibus, in qua, oculis, quamvis armatis non conſpiciendum aurum latet.*

molybdænæ. 4. A. inquinans plumbei coloris & nitoris igni expoſitum ſulphuris vaporem & flammam emittens, violentiſſimo auri granum nudum relinquens.

v. Born. ind. foſſil. 1. *p.* 68. Aurum molybdæna mineraliſatum.

Habitat in Tranſilvaniæ (*prope* Nagyag) & Hungariæ (*prope* Rimazombat) *fodinis, ex auro, molybdænæ calce & ſulphure conſtans.*

ſtibiatum. 5. A. coloris chalybei, candeſcendo ſulphuris vaporem flammamque cum fumo albo emittens.

v. Born ind. foſſ. 1. *p.* 68. Aurum antimonio mineraliſatum.

Habitat in Hungaria (*prope* Deutſchlipſch) & Tranſilvaniæ (*prope* Nagyag) *ex auro & ſtibio vulgari conflatum, ſuperficie interdum plumæ inſtar ſtriata.*

rufeſcens. 6. A. rufeſcens, candeſcendo ſulphuris flammam emittens.

v. born. ind. foſſ. 1. *p.* 69. Aurum pſeudogalena rubeſcente mineraliſatum.

Waller. ſyſt. miner. 2. *p.* 357. *n.* 4. Pſeudogalena aurifera.

Habitat in Tranſilvania *prope* Nagyag, *lamelloſum, nitoris ſemimetallici, præter aurum zinci ferrique calcem & ſulphur continens.*

cinereum. 7. A. duriuſculum fragile compactum coloris chalybei, candeſcendo ſulphuris flammam & arſenici fumum edens.
v. Born. ind. foſſ. 1. *p.* 68. Aurum minera argenti cinerea mineraliſatum.
Habitat in Tranſilvania (*prope* Nagyag) *cupro cinereo externo habitu ſimile & hujus more præter aurum, ſulphur, arſenicum, cuprum & pauxillum argenti continens.*

albidum. 8. A. albidum intus flavicans fibroſum candeſcendo ſulphuris flammam & arſenici fumum emittens.
v. Born. ind. foſſ. 1. *p.* 69. Aurum ferro & arſenico ſulphurato mineraliſatum, textura filamentoſa flaveſcente, facie argenti arſenicalis.
Habitat in Tranſilvania *prope* Nagyag, *præter aurum ſulphur arſenicum & ferrum continens, externo habitu arſenicum argentiferum referens.*

vireſcens. 9. A. ex aurichalceo vireſcens obſcurius nitens texturæ minutim granulatæ candeſcendo ſulphuris vaporem flammamque emittens.
Rindheim Schr. berl. Naturf. 4. *p.* 396. Grüner Goldkies.
Habitat in Tranſilvania *prope* Nagyag, *quartzo innidulans præter aurum, ſulphur & ferrum, cuprum quoque & magneſiam continens, ſæpe aurum bracteatum intermixtum continens.*

pyritico-ſum. 10. A. aurichalceum candeſcendo ſulphuris flammam emittens.
Syſt. nat. I. *p.* 184. *n.* 2. Aurum nudum mineræ.
Syſt. nat. XII. 3. *p.* 152. *n.* 2. Aurum (mineraliſatum) pyrita.
Cronſt. miner. §. 165. 2. I. I. Aurum ſulphure mineraliſatum mediante ferro.
Woltersd. miner. 29. Aurum minera varia veſtitum.
Waller. ſyſt. miner. 2. *p.* 356. *n.* 2. Aurum ſulphure & ferro cum vel ſine cupro mineraliſatum, minera pyritaſea flava vel virideſcente.
Habitat in Sumatra, nova Hiſpania, Suecia (*prope* Ædelfors,) Stiria (*prope* Mandling,) Salisburgo (*prope* Fuſch & Muhrwinkel,) Hungaria (*prope* Magurka & Rimazombat) & Tranſilvania (*prope* Facebai,) *interdum fatiſcens aut* e. gr. *in* Sabaudia *prope* Sourde, *cryſtallorum ſpecie, præter aurum ſulphur & ferrum continens.*

bracteatum. II. A. coloris ferrei lamellis flexilibus conſtans candeſcendo fumans & granum ductile nitoris colorisque argentei relinquens.

Scopol ann. hiſtor. natur. 3. p. 107.

v. Ruprecht phyſic. Arb. eintr. Fr. 2. Wien. I. 1. *p.* 86,

Habitat in Tranſilvania *prope* Nagyag, *cultro ſectile præter aurum aqua etiam regia extrahendum ferrum, plumbum, argentum & ſulphur, interdum quoque ſtibium, vel prœterea wismutum, cuprum atque arſenicum continens, quarzo vel magneſiæ roſeæ minoribus particulis, vel majoribus fruſtis, innidulans, forma aut communi aut tabularum hexaedrarum.*

94. PLATINA. Coloris argentei nitorisque tenaciſſima, duriſſima, ſonora, ſummopere malleabilis & ductilis, ponderis ſpecifici = 24000 : 1000.
☽☉

Igne fixiſſimum, neque ſulphure, neque ſulphuris hepate, neque plumbi vitro domanda, cum nitro tamen detonans, difficilime, & ferro ipſo longe difficilius liqueſcens.

Aqua regis ſolvenda, ex hac per ſal ammoniacum colore aurantio præcipitanda.

granulata. I. PLATINA.

Waller. ſyſt. miner. 2. *p.* 365. *n.* 7. *Cronſt. miner.* §. 178. *Vogel miner.* 517. Platina del Pinto.

Watſon act. angl. 46. *n.* 496.

Lewis Zuſamenh. d. Künſt. I. 1. *p.* 211. &c.

Marcgraf chem. Schrift. 1. *p.* 1. *ſqq.*

Scheffer, Cronſtedt & Wallerius act. Stockh. 14. *p.* 275. 284. 19. *p.* 303. 26. *p.* 228. 27. *p.* 167.

Habitat in regno Peruano *prope* Quito, *in* nova Granada *prope* S. Fé *&* Choco, *etiam in* Barbados, *interdum in*

vicinia montium ignivomorum *mediæ* Americæ (*an per hos generata?*) *tum in fodinis*, *tum ad ripas fluviorum*, *forma granorum lævigatorum compreſſorum ſtanni colore & nitore nunc obſcuriore nunc lucidiore conſpicuorum rariſſime cohærentium*, *ferri ſcobe plurima* (*ad* $\frac{1}{3}$ *uſque*) *inquinatorum*, *hydrargyri connubium renuens & colore ad granatinum accedente in aquam regis tranſiens*, *acmum circa annum* 1736 *in* Europa *innotuit.*

APPENDIX.

LARVATA.

1. Animalium.
   a. Mammalium.
      α. 95. ANTHROPOLITHUS.
      β. 96 ZOOLITHUS.
   b. Avium.
      97. ORNITHOLITUS.
   c. Amphibiorum.
      98. AMPHIBIOLITUS.
   d. Piſcium.
      99. ICHTHYOLITHUS.
   e. Inſectorum.
      100. ENTOMOLITHUS.
   f. Vermium.
      101. HELMINTHOLITHUS.
2. Vegetabilium.
      102. PHYTOLITHUS.

LARVATA.

95. ANTRHOPOLITHUS. Corpus humanum ejuſve partes referens.

totalis. 1. A. totum corpus humanum referens.
Syſt. nat. I. *p.* 201 *n.* 1. XII. 3. *p.* 156. *n.* 1. *Geſ. petrif.* 73. Zoolithus hominis.
Cartheuſ. miner. 81. Antrhopolithus totius corporis.
Heppel Schatkamm. 579. *Henkel. flor. ſaturn.* 532. Petrificatum hominis.
Cronſt. miner. §. 282. 2. 1. 1. 1. & §. 285. 3. 1.
Inventus Fahlunæ *in* Suecia, *vitriolo ferri & pyrita conditus, in lapidem durum, ut fertur converſus*, 1585 Aquis ſextiis Galliæ, Reattlingæ *in* Suevia, Freybergæ *in* Saxonia.

partialis. 2. A. cranii vel aliorum oſſium.
Grew muſ. ſoc. reg. p. 332.
Kundmann promtuar. p. 255.
Inventus traditur in montibus Remis Campaniæ gallicæ *vicinis.*

96. ZOOLITHUS. Corpus mammalis cujusdam ejusve partes referens.

Turcoſa. 1. Z. dentium duriuſculus ex viridi cæruleſcens.
Syſt. nat. I. *p.* 201. *n.* 4. XII. 3. *p.* 156. *n.* 4. Zoolithus dentis viridis cæruleus.
Reaumur act. pariſ. 1718. *p.* 230. Turcoſa gallica.
Waller. miner. 359. Petrificata animalia dentium quadrupedum nitorem & polituram gemmeam admittentia, colore cyaneo.
Waller. ſyſt. miner. 2. *p.* 575. *n.* 5. Zoolithi mineraliſati dentium quadrupedum colore cyaneo nitorem & polituram gemmeam admittentes cuprei.
Cronſt. mineral. §. 287. 2. 1. 1. 1.
Habitat in Perſia, Sibiria, Bohemia (*prope* Lelſa, Thurgovia Helvetiæ, Occitania inferiori, & *provincia* Niver-

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Non confundenda cum his larvatis oſſa et ligna mere foſſilia animalia et vegetabilia eorumque partes cortice lapideo obducta, aut inſecta et vegetabilia mineralibus incluſa; Antrhopolithi plurimi maxime dubii.

nenſi Galliæ, *orientis incolis magni æſtimatus & adhucdum inter gemmas relatus, quamvis politura mediocrem tantum acquirat nitorem, opacus, linguæ paulisper adhæreſcens, ferri interdum forſan cupri calce tinctus, ut tamen ſæpe demum ad aërem ſalem aut leniorem ignem acquirat, fortiori vero vel diutius efficaci in ſordide luteum, fuſcum aut nigricantem convertat.*

Oſteolithus. 2. Z. oſſium calcareus.
Kundt. in Lesk. Mineralkab. 2. *p.* 43.
Habitat in Thuringia *prope* Erfordiam *&* Vinariam, *in marmor vulgatum converſus.*

ſimiæ. 3. Z. integri ſceleti ſimiæ.
Swedenborg. regn. ſubterran. de cupro Dresd. 1734. *fol. p.* 168. *t.* 2.
Inventus in Hennebergia 1733 *prope* Glücksbrunn, *margæ bituminoſæ cupriferæ incluſus.*

cervi. 4. Z. oſſium cervi.
Syſt. nat. I. *p.* 201. *n.* 2. XII. 3. *p.* 136. *n.* 2. *Geſn. petrif.* 43. Zoolithus cervi.
Spada lap. veron p. 45. Petrificatum cervi totalis.
Hermann marlograph. Sceleton alces.
v. Born ind. foſſ. 2. *p.* 1. Zoolithus cornu cervi ferrugineus ochraceus fuſcus.
Inventus in montibus di Valmenara di Grezzana, *in* Sileſia, *prope Baruth in* Sileſia, *nunc integrum ſceleton, nunc oſſa ſegregata.*

Roſmari. 5. Z. capitis oſſei Roſmari.
Monti monument. diluv. nuper in agro Bonon. det. Bonon. 1719. 4.
Inventus circa Bononiam Italiæ.

bovis. 6. Z. ſceleti bovini.
Inventus ſub finem prioris ſeculi in Saxonia *inter* Querfurtum *&* Gatterſtedt.

ſoricis. 7. Z. ſceleti ſoricini.
Inventus in Bohemia, *ardeſiæ incluſus.*

97. ORNITHOLITHUS. Corpus avis ejusve partem referens.

roſtri. 1. O. roſtri. *Syſt. nat.* I. *p.* 200. *n.* 2. XII. 3. *p.* 157. *n.* 2.
Waller. miner. 360. *ſyſt. miner.* 2. *p.* 567. *n.* 4. a. Xyloſtea roſtrorum avium.
Inventus circa Jenam & Vinariam, Thuringiæ Reutlingam Sueviæ, & *in ſuilo ſchiſtoſo impreſſus* Jeningæ *ad fines* Sueviæ Helveticos.

oſſium. 2. O. oſſium.
Waller. ſyſt. miner. 2. *p.* 567. *n.* 4. Ornitholithi avium, & *p.* 568. *n.* 7. Typolithi oſſium avium.
Hermann marlograph. 2. *c.* 9. *p.* 224.
Habitat in Sileſia.

plumarum. 3. O. plumarum.
Waller. ſyſt. miner. 2. *p.* 566. *n.* 2. Ornitholithi plumarum avium, & *p.* 568. *n.* 6. Typolithi plumarum avium.
Scheuchz. querel. & vindic. piſc. p. 14. *t.* 2.
Walch Naturg. Verſtein. II. 2. *p.* 182.
Inventus potiſſimum Oeningæ *ad fines* Sueviæ Helveticos *ſuillo ſchiſtoſo impreſſus.*

98. AMPHIBIOLITHUS. Corpus amphibii ejusve partem referens.

teſtudinis. 1. A. teſtudinis. *Geſn. petrif.* 41.
Inventus totalis in Helvetiæ *ardeſia* Glaronenſi, *in topho montis* & Petri *prope* Trajectum *ad* Moſam *potius typolithus, partialis in ardeſia* Glaronenſi & *prope* Berlingam Helvetiæ, *in* Malta, Lypſiæ, & *in aliis* Saxoniæ *partibus, in* Angliæ *quoque, præſertim* Oxfordiæ *lapidicinis obvius.*

ranæ. 2. A. ranæ. *Geſn. petrif. p.* 40. 41.
Spener. miſcell. Berolin. p. 102. Lapis ingentis magnitudinis bufonem exhibens.
Inventus partialis capitis ranæ in ardeſia Helvetiæ Glaronenſi, *totalis bufonis in ſuillo ſchiſtoſo* Oeningenſi.

crocodili. 3. A. totalis ſceleti crocodili. *Geſn. petrif. p.* 40.
Miſcell. Berol. 1710. *p.* 103. *f.* 24. Crocodili ſceleton e fodinis thuringicis Kupferſuhlienſibus ad 50 ulnarum profunditatem.

Ornitholithi plerimi potius typolithi, alii hic omiſſi ad incruſtata referendi.

act. Lipſ. 1718. *p.* 188. *t.* 11. Sceleton Crocodili in ſchiſto.
Stuckeley act. angl. n. 360. *p.* 936. *cum ic.*
Inventus in Anglia (*prope* Elſton) *in argilla indurata, in* Aquitania (*prope* Dax) *in* Hennebergia (*prope* Sul) & Wirtembergia (*prope* Boll) *in lapide ſchiſtoſo.*

99. ICHTHYOLITHUS. Corpus piſcis ejusve partem referens.

niger. Fiſchſchiefer. 1. I. in lapide ſchiſtoſo nigro.
Syſt. nat. I. *p.* 198. *n.* 1. XII. 3. *p.* 159. *n.* 1. *Schreb. lithogr.* 106. Ichthyolithus totalis ſchiſti.
Geſn. petrif. p. 37. *Wolf. helſ. t.* 13. 20. *Davil. curioſ.* 3. *t.* 4.
Myl. ſaxon. 1. *p.* 4. *f.* 1-3. & *p.* 47. *f.* 12. *Braun miner.* 2. *t.* 7. 8. Piſces petrificati.
Geſn. fig. 161. Lapis islebianus.
J. J. Scheuchzer querelæ & vindiciæ piſcium. Tigur. 1708. 4. *p.* 15.
β) *Syſt. nat.* XII. 3. *p.* 158. *n.* 5. Amphibiolithus totalis Nantis.
Invenitur in marga bituminoſa, vel ardeſia, piſce ipſo vel ipſius parte nunc bitumine, nunc pyrita, nunc cupro fulvo perfuſa, in monte Vicentino Viale, *in montibus* Helvetiæ Glaronenſibus, *in* Wirtembergia *prope* Boll, *in comitatu* Iſenburgico (*prope* Haingründa,) *prope* Munſter appel *ad* Rhenum, *in* Haſſia (*prope* Riegelsdorf) *in comitatu* Mansfeld (*prope* Islebiam, Rotenburgum,) & Henneberg (*prope* Ilmenau,) Sileſia (*prope* Mansbach,) & *inſula* Angliæ Sheppey, *piſcibus ipſius ad murænæ, xiphiæ, gadi ſcorpænæ pleuronectis, ſpari, labri, percæ, ſcombri, ſilari, ſalmonis, eſocis, mugilis, clupeæ, cyprini baliſtæ, ſyngnathi, rajæ genus pertinentibus, interdum merus typolithus.*

pallidus. 2. I. in lapide ſchiſtoſo pallido.
Syſt. nat. I. *p.* 198. *n.* 2. XII. 3. *p.* 159. *n.* 2. *Muſ. Teſſ.* 100. *Schreb. lith.* 107. *Rumpf muſ. t.* 59. *f.* H. Ichthyolithus totalis marmoris.
Scheuchz. muſ. 97. 104. *querel.* 17. *herbar.* 40. 115. Marmor ſ. lapis fiſſilis marmoreus candidus ſ. ſubflavus eichſtadienſis ſ. pappenheimanſis cum dendritis piſcium que impreſſionibus.
Krüger Geſch. d. Erde. Hall. 1746. 8. Piſcis in lapide.
Habitat in Palæſtinæ Libano, Veronenſi *monte* Bolca, Romania Italiæ *mediæ* (*prope* Scapezzano & Mondolfo,)

Helvetiæ *pago* Uri, *in confiniis* Sueviæ Helveticis (*prope* Oeningen,) *comitatu* Pappenheimenſi, Bavaria, *principatu* Eichſtadienſi & Onoldino, *piſcibus*, *rarius marinis*, e. gr. *ſcorpæna*, *pleuronecte*, *ſcaro*, *labro*, *ſcombro*, *trigla*, *exocœto*, *quam fluviatilibus murænis*, *percis cobitide*, *ſalmonibus*, *eſocibus*, *cyprinis*, *eorumve capitibus*, *branchiarum operculis & oſſiculis*, *aliisve oſſibus*, *pinnis*, *caudis*, *cirrhis*, *ſquamis ſuillo ſchiſtoſo cineraſcenti*, *aut marmori fiſſili impreſſis*, *interdum quoque bitumine perfuſis*.

Bufonites. 3. I. dentis molaris anarhichæ.

Syſt. nat. I. *p.* 198. *n.* 4 *Muſ. Teſſin.* 100. *n.* 4. *Schreb. lithol.* 109. Ichthyolithus dentis hæmiſphærici.

Act. angl. 200. *p.* 750. *Lugd. litoph.* 70. *Mort. north.* 244. Bufonites majuſculus atro-rubens inſtar capſulæ glandis quercinæ.

Boët. lap. 301. Lapidis bufonitis varietas prima.

Merret pin. 210. Bufonius.

Geſn. lap. 161. Batrachita ſ. Crapodina.

Habitat cum gloſſopetris e. gr. *in* Wirtembergia, *lapidicinis* Saxoniæ Querfurtenſibus, *extrinſecus nitens lævis*, *ſæpiſſime niger*.

Gloſſopetra. 4. I. dentis ſquali.

Syſt. nat. I. *p.* 198. XII. 3. *p.* 158. *n.* 6. *Schreb. lith.* 108. Amphibiolithus dentis ſquali.

Olear. muſ. t. 21. *Büttn. diluv.* 242. *t.* 24. B. 9. γ. A. 7. *Lerch. oryctol.* 39. *Vogel. miner* 211. *Wolff halſ. t.* 21. *J. Reiske de gloſſopetr. Luneburg. Lipſ.* 1684. 4.

α. anceps ſerratus. *Geſn. fig.* 162. *f.* A. B. *Worm. muſ.* 67. *f.* 4. *Bocc. obſ.* 314.

β. anceps incurvus integerrimus. *Schreb.* α.

γ. anceps rectus integerrimus. *Schreb.* β.

δ. ſubanceps baſi bifurca *Screb.* γ. *Geſn. fig.* 162. *f.* 1. *Worm. muſ.* 67. *f.* 1.

ε. teres rectus ſtriatus trifidus. *Schreb.* δ.

ζ. ſubulatus ſtriatus, *Schreb.* η.

Habitat in Archipelagi *inſulis*, *frequens in* Melita, Italia (*prope* Creuzzo & Veronam,) Helvetia, Wirtembergia (*prope* Echterdingam, Bebenhuſam, Pſullingam,) Palatinatu (*prope* Alzey,) *prope* Aquisgranum, & Luneburgum, *in* Holſatia, Haſſia, Mansfeldia, Saxonia (*præſertim prope* Querfurtum,) Carniolia, Carinthia, Bohe-

mia (*prope* Pragam) Sileſia, Boruſſia, Scotia, Anglia, Gallia, *duriuſculus*, *extrinſecus nitens*, *intus fibroſus*, *variæ magnitudinis*, *ſæpe minimus*, *ſolitarius & gregarius*, *liber aliisve foſſilibus infixus*, *utplurimum glaucus*, *ater aut badius*, *rarius thalaſſinus*.

100. ENTOMOLITHUS. Inſectum aut partem ejus referens.

Cancri. 1. E. cancri. *Syſt. nat.* I. *p.* 197. *n.* 1. *Muſ. Teſſin.* 98.
Vogel. mineralſ. 208. Aſtacolithus ſ. Gammarolithus.
Zannich. muſ. 54. 29. 32. *Scheuchz. quer.* 29. *t.* 4. Cancer lapideus.
Geſn. petrif. 59. Aſtacolithus.

α. brachyuri.
a. piſi. *Walch Naturg. Verſtein.* 1. *p.* 152.
b. vocantis. *Walch Naturg. Verſtein.* 1. *p.* 152.
c. craniolaris. *Walch Naturg. Werſtein.* 1. *p.* 152.
d. mænadis. *Davil. catal.* III. *t.* 3. H. h.
e. dromiæ. *Aldrov. muſ. metall. p.* 152.
f. paguri.
Bourguet petrif. 113. *Teſſ. muſ.* 98. *Rumpf muſ. t.* 6. *f.* 1. 2. 3. Cancer lapidefactus.
Geſn. fig. 167. *Davil. catal.* 3. *t.* 3. *f.* G. Pagurus lapidens.
g. chabri. *d'Annon miner. Beluſt.* 5. *t.* 3. *f.* 1. 2.
h. cryſtati. *Walch. Naturg. Verſtein.* 1. *p.* 153.
i. longipedis. *Walch. Naturg. Verſtein.* 1. *p.* 153.
k. cruentati. *Kundm. rar. nat. & act. t.* 4. *f.* 10.

β. macrouri.
a paraſitici. *Kundm. rar. nat. & act. t.* 4. *f.* 9.
b. aſtaci.
Scheuchz. ſacr. 64. *t.* 56. *Davil. catal.* 3. *t.* 3. *f.* I. Aſtacus petrificatus.
c. carcini. *Baier monim. rar. petrif. p.* 13. 14. *t.* 8. *f.* 1. 2.
d. ſquillæ. *Baier. monim. rar. petrif. t.* 8. *f.* 10. 12. *Kundm. rar. nat. & art. t.* 4. *f.* 12.
e. crangonis. *Knorr Verſtein. t.* 15. *f.* 6.
f. mantis.
v. Born ind. foſſ. 2. *p.* 4. Entomolithus cancri macrouri.
g. policis.
Klein dub. 36. *f.* E. Z. Pulex petrificatus.
h. ſtagnalis.
v. Born. ind. foſſ. 2. *p.* 4. Entomolithus cancri macrouri ſtagnalis.

Habitat in Ægypto, America, Japonia, Sina (*prope* Cantono,) Java, India (Tranquebariæ, & *ad littora* Coromandel & Malabar,) *in* Italia (*prope* Vicentium & *in parte tenarum* Veronenſi *prope caſtellum* S. Felicis, *in valle* Ronega, *ad radicem montis* S Leonhardi, & *prope* Caſa di Chiafarin di Cerna, in Helvetiæ *montibus* Lagerberg, Schneckenberg & Glaronenſibus, *in comitatu* Pappenheimenſi, *terra* Eichſtadienſi, & (*prope* Solenhofen, Onoldina, *in terris* Brunsvicenſibus (*prope* Helmeſtædt & Gehrden, *terra* megalopolitana (*prope* Altſtargard,) Belgio (*prope* Trajectum *ad* Moſam *in monte* S. Petri,) Gallia (*prope* Dax, Dieulouard & Angers,) Hiſpania, & Angliæ *inſula* Sheppey, *nunc integrum animal, nunc ſcutum dorſale, chelas, pedes, caudam vel lapillos referens, in ardeſia & marmore fiſſili, frequentius, quam in aliis foſſilibus* e. gr. *arenario, argilla indurata, obvius.*

monoculi. 2. E. monoculi polyphemi.
(*Andreæ*) *Br. aus der Schweiz. p.* 32. *t.* 4.
Habitat in marmore fiſſili Onoldino (*prope* Solenhofen.)

paradoxus. 3. E. oniſci paradoxi.
Syſt. nat. XII. 3. *p.* 160. *n.* 2. *Muſ. Teſſin.* 98. *t.* 3. *f.* 1. 2.
Act. Stockh. 1759. *p.* 19. *t.* 1. *f.* 1-4.
Act. petropol. 1766. Oniſcus petrificatus.
It. oel. 147. *f.* 147. Petrificatum valvulam echiei referens.
Schreb. lithol. p. 48. Conchites anomius valvulis trilobis.
It. wgoth. 67. *f.* 68. Petrificatum ignotum.
Woltersd. miner. 41. *Lehm. F.* 72. *t.* I. A. B. Conchites tribus lobis [illegible] referens.
Lindawes op. J. Mayer. Samml. phyſ. Auff. p. 39. 42.
β) *It wgoth.* 24. *Tab.* 121. Petrificatum inſecti coleoptrati.
Bromel act. Upſal. 1729. *p.* 494. *t.* 496. 4. 7. *lithol.* 2. *p.* 494. 525. 526. 528. Lapis [illegible] [illegible] infectorum veſtigia exhibens.
γ) *It. ſcan.* 122. Petrificatum alterum piſiforme.
Bromel act. Upſal. 1729. *p.* 527. Petrificatum.
Habitat in Angliæ *provinciis* Shrop. (*prope* Colebrookdale,) Stafford & (*prope* Dudley) Worceſtre *in* Oſtrogothia. Weſtrogothia, Oelandia & Scania Sveciæ, *in monte* Boruſſiæ Zydelberg *prope* Gedanum *Ducatu* Megapolitano (*prope* Roſtochium, Stargard, & Gnoym. Marchia Uckerana & *reliquæ* Brandenburgica (*prope* Berolinum, *novum* Ruppinum & Francofurtum,) Bohemia (*prope*

Coſors & Ginez.) Franconia (*prope* Glücksbrunn,) Thuringia (*prope* Burgwenden,) *terra* Paderbornenſi (*prope* Stemme,) Eifalia (*prope* Keldenig, Soetenich, & *in monte* Koermberg,) *prope* Aquiſgranum, *in* Gallia (*prope* Angers) Hiſpania (*prope* Pardos & Anchuela) & Helvetia, *in marmoris & ſuilli variis, ſpeciebus, frequentiſſime nigris, ardeſia, jaſpide, pyromacho, arenario, alumine ſchiſtoſo occurrens, nonnunquam merus typolithus, alias aut vagus, aut matrici infixus, ſolitarius, aut una cum aliis larvatis, nunc rectis, nunc vermis inſtar incurvatus, nunc expanſus, nunc contractus, nunc partialis, nunc totalis, oblongo-ovatus, ex capite, trunco & cauda compoſitus, capite teſta valde convexa ſubaſpera ſæpius tripartita antrorſum ſemilunari tecto, ſulcis per totam longitudinem, interdum flexuoſis, exarato, ſupra ad latera hemiſphæricis aut cylindricis duobus tuberculis notato, trunco cylindrico trilobo, teſta laminoſa ex annulis verſatilibus triarcuatis compoſita tecto, cauda tenui per tria tubercula tripartita, An protypus oniſci ſpecies?*

101. HELMENTOLITHUS. Vermen ejusve partes potiſſimum duriores referens.

α. molluſcorum.

aſteriæ. 1. A. aſteriarum.

α. pappoſæ.

in marmore fiſſili Pappenheimenſi & Onoldino.

β. rubentis.

in topho montis S. Petri *prope* Trajectum *ad* Moſam.

γ. minutæ.

Syſt. nat. I. *p.* 1099. *n.* 4. XII. 3. *p.* 166. *n.* 11. Helmintholithus (Aſtrion) Aſteriæ minutæ.

in Angliæ *creta.*

δ. glacialis?

in Gallia *prope* Moleſme.

ε. reticulatæ.

in Gallia *prope* Chaſſai ſur Saone.

ζ. arantiacæ.

Walch Steinr. I. *p.* 107. 108. *t.* 2. *n.* 1. Stellæ marinæ.

η. equeſtris.

in arenario Saxoniæ Rhenenſi.

ϑ. ophiuræ.

in marmore, potiſſimum fiſſili, mantuano Italiæ, Onoldino Germaniæ, *radiis ſolitariis etiam prope* Rotenburgum *ad* Tubarim *obviis in arenario micante flavo in* Hennebergia *prope* Oberlantes.

ι. pectinatæ.

in marmore fiſſili Pappenheimenſi & Onoldino.

κ. multiradiatæ.

b. *Syſt. nat.* XII. 3. *p.* 166. Helmintholithus (alveatus) cylindricus aggregatus confertim oblique annulatus.

radiis avulſis aggregatis inducatu Megalopolitano *prope* Stargard.

λ. capitis meduſæ.

paſſim radii ſolitarii.

Habitat paulo rarior, in montibus cretaceis, calcariis, arenariis, ſæpius tantum modo impreſſus.

echini. 2. H. echinorum.

α. integrorum.

Syſt. nat. XII. 3. *p.* 166. *n.* 10. *Muſ. Teſſin.* 94. *Schreb. lithol.* 103. a. Helmintolithus (Echinites) echini.

Olear. muſ. 22. 21. *Woltersd. miner.* 36. *Geſn. petrif.* 34. *n.* 1. 12. *Geſn. figur.* 168. b. 1. 2. & 156. b. 1. 2. *Rumpf. muſ. t.* 50. *f.* 7. 9. & *t.* 59. *f.* C. E. F. Echinites.

a. eſculenti.

in Anglia, Hildeſia, Saxonia (*prope* Halam & Lipſiam,) Temeſia (*prope* Moldawa,) *principatu* Neocomenſi, *creta, marmore, marga, pyromacho, achate, pyrita fartus.*

b. excavati. *Klein echinod. ad. Lesk. p.* 95. *t.* 44. *f.* 3. 4.

in marmore Veronenſi *ex flavo cinereo.*

c. globuli?

in Angliæ, Belgii (*prope* Trajectum *ad* Moſam) Weſtphaliæ (*prope* Ludenberg, & Burwenich,) Hercyniæ (*prope* Goslariam,) Haſſiæ (*prope* Bibra,) *epiſcopatu* Baſileenſi (*prope* Pfeffingen) *utplurimum calcariis rarius pyromacho.*

d. ſaxatilis.

in marmore Auſtriæ *ſuperioris prope ſalifodinas obvio.*

e. ovarii.

in Angliæ, Normandiæ, Helvetiæ *montibus cretaceis & calcariis.*

f. diadematis.

in Helvetiæ *monte* Radberg, Weſtphaliæ Rothenberg,

g. circinati. *Lesk. ap. Klein echinod. p.* 119. *t.* 45. *f.* 10.

h. cidaridis.
in Angliæ, Saxoniæ (*in* Plauiſchen Grund *prope* Dresdam,) Franconiæ (*inter* Bambergam & Erlangam,) Wirtembergiæ, (*ad montem* Teck,) Sueviæ (*prope* Giengen) *pyromacho*, Wirtembergiæ (*prope* Blabyram) *marmore*, *etiam prope* Ptulingam, *in* Helvetiæ *monte* Randberg, *valle* Hemmerthal & *prope* Baubendorf, *in* Hildeſiæ *monte* Galberg, *obvius*.

i. mammillati.
in Melita, Helvetiæ *monte calcario* Legerberg, Lotharingiæ (*prope* Basville) *minera ferri*.

k. lucuntris.
in Angliæ *montibus cretaceis* Veronenſibus.

l. coronalis. *Lesk. ap. Klein echinod. p.* 136. *t.* 8. A. B.
in Angliæ *potiſſimum*, *creta & pyromacho*.

m. aſterizantis. *Klein echinod. ed. Lesk. p.* 141. *t.* 8.
creta repletus, *teſta in ſpatum converſa*.

n. teſſellati. *Klein echinod. ed. Lesk. p.* 153. *t.* 11. G.
in Baſileæ *montibus calcariis*.

o. botryoidis. *Lesk. ap. Klein echinod. p.* 154. *t.* 11. H.

p. ſinuati. *Klein echinod. ed. Lesk. p.* 157. *t.* 12.
in Angliæ *creta & marmore*.

q. ſemigloboſi. *Klein echinod. ed. Lesk. p.* 158. *t.* 43. *f.* 1.
in Sileſiæ, Helvetiæ *montibus calcariis*.

r. quinquelabiati. *Klein echinod. ed. Lesk. p.* 159. *t.* 41. *f.* 3.
in Helvetiæ *montibus calcariis*.

s. conoidei. *Lesk. ap. Klein echinod. p.* 159. *t.* 43. *f.* 2.

t. albo-galeri. *Lesk. ap. Klein echinod. p.* 162. *t.* 13. A. B
in Angliæ, *creta*, Saxoniæ *inferioris marmore*.

u. depreſſi. *Lesk. ap. Klein echinod. p.* 164. *t.* 40. *f.* 5. 6.
in Saxoniæ *inferioris*, Helvetiæ *calcariis*.

x. vulgaris.
Waller. ſyſt. miner. 2. *p.* 507. Echinitæ fibulares.
in Angliæ, Germaniæ, Sileſiæ *calcariis frequens*.

y. quadrifaſciati. *Lesk. ap. Klein echinod. p.* 170. *t.* 47. *f.* 3-5.

z. ſexfaſciati. *Lesk. ap. Klein echinond. p.* 170. *t.* 50. *f.* 1. 2.

aa. ſubuculi. *Lesk. ap. Klein echinod. p.* 171.

bb. ſcutati. *Klein echinod. ed. Lesk. p.* 175.
in Angliæ, Daniæ *creta*.

cc. ovati. *Lesk. ap. Klein echinod. p.* 178. *t.* 53. *f.* 3. *t.* 42. *f.* 5. & *t.* 8. *f.* G.

dd. puſtuloſi. *Lesk. ap. Klein echinod. p.* 180. *t.* 16. A. B
in Angliæ *creta* Germaniæ *marmore*.

ee. quadriradiati. *Lesk. ap. Klein echinod. p.* 182. *t.* 54. *f.* 1.
in Holſatiæ *marmore rudi.*
ff. minoris. *Lesk. ap. Klein echinod. p.* 183. *t.* 16. C. D. & *t.* 17. a. b. c. d.
gg. dubii. *Lesk. ap. Klein echinod. p.* 184. *t.* 44. *f.* 5.
hh. roſacei.
in Occitaniæ *montibus* Sevennis.
ii. alti. *Lesk. ap. Klein echinod. p.* 189. *t.* 53. *f.* 4.
kk. orbiculati. *Lesk. ap. Klein echinod. p.* 194. *t.* 41. *f.* 2.
in Helvetiæ *montibus calcariis.*
ll. ſubrotundi.
(Andreæ) Br. a. d. Schweiz. t. 5. *f.* g.
mm. corollati. *Lesk. ap. Klein echinod. p.* 209. *t.* 40. *f.* 4.
nn. Orbiculi.
in terræ Venetorum *parte* Veronenſi & Vicentina, Occitania, (*prope* Bardenburg) Weſtphalia.
oo. placontæ.
in Melita.
pp. cordis anguini.
Lhid. lithop. brit. p. 47. n. & *fig.* 964-969.
in Angliæ *creta*, Germaniæ *marmore rudi.*
qq. lacunoſi.
Scill. corp. mar. t. 7. *f.* 1. *t.* 10. *f.* 4. & *t.* 25. *f.* 2.
rr. radiati. *Lesk. ap. Klein echinod. p.* 234. *t.* 25.
Walch. diluv. monum. p. 182. *t.* E. 14. *n.* 1. 2.
ss. complanati. *Lesk. ap. Klein echinod. p.* 238. *t.* 51. *f.* 1. 2.
in Helvetiæ *marmore rudi.*
tt. ſubgloboſi. *Lesk. ap. Klein echinod. p.* 240. *t.* 54. *f.* 2. 3.
in Angliæ *creta*; Helvetiæ *marmore rudi.*
uu. Ananchytis. *Lesk. ap. Klein echinod. p.* 243. *t.* 53. *f.* 1. 2.
xx. bicordati. (*Andreæ*) *Br. a. d. Schw. p.* 16. *t.* 2. *f.* c.
in Helvetia.
yy. carinati. *Lesk. ap. Klein echinod. p.* 245. *t.* 51. *f.* 2. 3.
in Norico.
zz. ſpatagi.
in Angliæ *creta frequens*, *in* Belgii (*prope* Trajectum ad Mosam,) *topho*, *ducatus* Juliacenſis & Bergenſis (*prope* Blazheim & Steinen,) *comitatus* Reigenſtein (*prope* Thale,) Helvetiæ (*ad* Birſam *prope* Baſileam, Vergiæ, Melitæ *marmore.*
aaa. briſſoidis. *Scil. corp. mar. t.* 10. *f.* 1.
bbb. ovalis. *Lesk. ap. Klein echinod. p.* 253. *t.* 41. *f.* 5.
in Helvetia.

ccc. pyriformis. *Leſk. ap. Klein echinod. p.* 255. *t.* 44. *f.* 7. *& t.* 51. *f.* 5. 6.
ddd. lapidis cancri. *Leſk. ap. Klein echinod. p.* 256. *t.* 49. *f.* 10. 11.
eee. patellaris. *Leſk. ap. Klein echinod. p.* 256. *t.* 53. *f.* 5-7.
β. partium.
a. aculeorum.
Syſt. nat. XII. 3. *p.* 165. *n.* 9. Helmentholithus (judaicus) obovatus crenulato-ſtriatus ſubpetiolatus.
Muſ. Teſſin. 94. Helmintholithus judaicus lapis dictus.
Imperat. hyſt. nat. 743. *f.* 1-4. *Volkm. ſileſ.* 1. *t.* 27. *f.* 32. *Aldrov. muſ.* 711. *Calceol. muſ.* 293. *Worm. muſ.* 69. *Wagn. lap. judaic. Hall.* 1724. 4.
(*Andreæ*) *Br. a. d. Schw. p.* 266. Lapis judaicus.
a. tenuiſſimi, terretes.
prope Aquiſgranum.
† recti.
1. cylindrici.
in Helvetiæ *monte* Randberg.
2. conici.
in Helvetiæ *monte* Randberg, Bohemiæ *ſuillo prope* Coſors.
†† incurvi.
prope Veronam.
b. craſſiores.
in Helvetia, Sueciæ (*prope* Giengen) *pyromacho, læves, granulati, nodoſi, aculeati.*
c. forma digiti.
d. fuſiformes.
e. triquetri.
in Helvetiæ *monte* Randberg, *in* Suævia *prope* Giengen.
f. clavati.
in carpathicorum *montium marmore*, Veronenſi (*in* Scoglio della Limpia,) *ducatus* montani (*prope* Paffrath,) Saxoniæ (*prope* Querfurtum) *pyromacho, vagi & fixi, acaules & ſtipitati, læves, ſtriati, granulati, nodoſi, verucoſi, denticulati.*
g. cucumerini.
in Bohemiæ (*prope* Coſors) *ſuillo* Veronenſium *montium marmore, in* Helvetiæ *monte* Randberg & *pago* Baſileenſi, Wirtembergiæ *alpibus prope* Ehningen, Pfullingen, Nebelloch, Thalheim, *monte* Rosberg, *ducatu* Juliacenſi (*prope* Nothberg.

h. gladiformes.
in Weſtphalia (*potiſſimum prope* Bensberg,) Helvetiæ *monte* Randberg, Lotaringia (*prope* Basville.)

b. verrucarum.
in Helvetiæ *monte* Randberg.

c. ſcutellarum.
in Helvetiæ *monte* Randberg, *prope* Eheningen & Pfullingen *in* Wirtembergia.

d. denticulorum.
in Auſtriæ *ſuperioris* (*prope ſalifodinas*) & Thuringiæ (*prope* Vinariam & Jenam) *marmore.*

β. teſtaceorum.
a. multivalvium.

chitonis. 3. H. chitonis.
prope Creazzo *in* Venetorum *terris.*

lepadis. 4. H. lepadis.

α. balani.
in Pedemontii (*prope* Montafia *arenario*, *in* Melita, Occitania, (*prope* Dresdam) Saxonia.

β. balanoidis.
in Pedemontio.

γ. tintinnabuli.
in Pedemontii, *potiſſimum vallis* d'Andona *marmore, etiam in* Cevenis *montibus.*

δ. mitellæ.
in Pedemontii (*prope* Montafia) *marmore.*

pholadis. 5. H. pholadis.
Habitat calcariæ aut ſiliceæ indolis in pago & epiſcopatu Baſileenſi (e. gr. *prope* Diekten,) *in* Pedemontio, *terra* Sienenſi, *etiam prope* Staggio Hetruriæ, *prope* Bononiam & Tergeſtum.

b. bivalvium.

Muſculites. 6. H. myæ.
in Arabia, Anglia, Belgio (*prope* Trajectum *ad* Moſam,) Alſatia (*prope* Buchsweiler,) Helvetia (e. gr. *prope* Berlingen,) Suevia (*prope* Oeningen,) Wirtembergia (*prope* Tuttlingen, Balingen, *in monte* Hangberg, *prope* Thalhum, Næhren, Pfullingen, Grosbettlingen, Bebenhauſen, Echterdingen, Boll, Heidenheim, Franconia (*prope* Altdorf, Wertheim, Herbipolin, Memeldorf,) Thuringia (*prope* Arnſtadt, Jenam & Vinariam,) Haſſia

(*prope* Gudensberg,) Hercynia (*prope* Goslar,) *ducatu* Brunsvicenſi, Hildeſiæ *montibus* Oſterberg & Galberg, *ducatu* Bergenſi (*prope* Gerresheim) & *prope* Aquiſgranum.

Solenitas. 7. H. ſolenis.
in Hiſpania (*prope* Anchuela,) Helvetia (*prope* Caſtelen, Schenkenberg, Gisliſluh, Hotwil, Oberflachs, Schinznach,) Suevia (*prope* Oeningen & Reutlingen,) Wirtembergia (*prope* Pfullingen, Thalheim, Oſterdingen, Boll, Heydenheim,) Franconia (*prope* Winkelheid & Herbipolin,) Saxonia, Thuringia (*prope* Gruhſen & Waidenbach,) Hercynia (*prope* Bleichenrode, *in monte* kleiner Kazenberg & Tilgenweiſe *prope* Goslar,) Hildeſia (*in monte* Galberg,) & *ducatu* Bergenſi (*prope* Ringersheid & Gerresheim,) *interdum merus typolithus aut nucleus, calcarius, arenarius, pyritaceus, aut ferruginoſus.*

Tellinites. 8. H. tellinæ.
in Italiæ *ſuperioris*, Helvetiæ (*in monte* Randberg,) Hungariæ, Bohemiæ (*prope* Pragam,) Franconiæ (*prope* Solenhofen,) Megalopolis (*prope* Neuſtreliz,) Hildeſiæ (*prope* Dikholzen,) Hercyniæ (*in* Oſterfeld *prope* Goslar,) Alſatiæ (*prope* Gundershofen (*marmore, typolithus in* Auſtriæ (*prope* Prugg *ad fluvium* Leutha) *argilla.*

α. H. linguæ felis.
in Helvetiæ & Wirtembergiæ *montibus calcariis.*

β. H. tellinæ roſtratæ.
in Wirtembergia *prope* Boll & Næhren, *vagus, calcarius.*

γ. H. tellinæ donacinæ.
calcarius, *prope* Herbipolin.

Bucardites. 9. H cardii.
in America *meridionali*, Campania *gallica*, Italia (*prope* Bononiam,) Croatia (*prope* Samabor,) Traſilvania, Temaſia, Bohemia (*prope* Duchomierziz,) Auſtria (*prope* Prugg *ad fluvium* Leutha & Brunn,) Wirtembergia (*in monte* Hungberg, *prope* Heydenheim, Thalheim, Echterdingen, Boll,) Franconia (*prope* Altdorf,) Thuringia (*prope* Jenam & Vinariam,) Hercynia (*ad montem* Kalkberg *prope* Goslar,) *in circulo* Germaniæ weſtphalico (*prope* Gerresheim & Bergheimersdorf,) *nucleus ut plurimum vagus, marmoreus, ſuillus, arenarius, vel pyriticoſus.*

α. H. cardiſſæ.
in Auſtria (*prope* Prugg *ad fluvium* Leutha.)
β. H. cardii tuberculati.
in Tranſilvaniæ *montibus*, Bohemia, Campania *gallica*, Barbaria (*prope* Algeriam.)
γ. H. cardii ruſtici.
in Wirtembergia (*prope* Bebenhuſam) *ſuillus*.
δ. H. lithocardium.

mactræ. 10. H. mactræ.
in Pedemontio (*prope* Auguſtam Taurinorum, & *reliqua ſuperiore* Italia (e. gr. prope Veroniam,) Alſatia (*prope* Waldenheim, Thuringia, Anglia, *utplurimum marmoreus*.

Donacites. 11. H. donacis.
α. H. ſcorti.
in circulo Weſtphalico Germaniæ (*prope* Ringerheid)
β. H. iri.
in Wirtembergia (*prope* Boll,) Alſatia (*prope* Gundershoſen,) *pago* Helvetiæ Baſileenſi (*prope* Tammingen.)

veneris. 12. H. veneris.
α. puberis.
a. H. Diones.
in pago Helvetiæ Baſileenſi (*prope* Ariſtorf & Tenneken,) Alſatia (*prope* Buchsveiler,) Wirtembergia (*prope* Roſenfeld & Pfullingen,) Franconia (*prope* Herbipolin,) Thuringia (*prope* Jenam) & Temeſia, *utplurimum marmoreus*, *ſæpe nucleus*.
b. H. Paphiæ.
in Americæ Continente, *in* Curacao, Melita Alſatia (*prope* Gundershofen.)
c. H. Dyſeræ.
in Hungaria (*prope* Oedenburg.)
β. impuberis.
a. ſubcordatæ.
a. læviſſimæ.
in Hercyniæ (*prope* Oſterwalde) *argilla*, *circuli* Weſtphalici (*prope* Dollendorf & Kebinghauſen,) Thuringiæ (*prope* Vinariam,) & Wirtembergiæ (*prope* Blabigram, Boll & Bebenhuſum) *marmore*.
b. ſubtiliter ſtriatæ.
in Pedemontio (*prope* Anguſtam Taurinorum,) Occitannia (*prope* Monſſon,) Alſatia (*prope* Stichhofen,) *marggraviatu*, Badenſi, Wirtembergia (*prope* Thalheim

heim & Boll) & Anglia (*præſertim prope* Stafford,) *ut-plurimum marmoreus, rarius pyriticoſus.*

c. transverſim ſulcatæ.

in Wirtembergia (*prope* Boll & *in monte* Achalm.)

b. cancellatæ.

in Wirtembergia (*prope* Pfullingen) & *pago* Helvetorum Baſilenſi.

e. imbricatæ.

in Campania *gallica.*

b. rotundatæ.

a. læves.

in Islandia (*prope* Huaswig,) Anglia (*prope* Witney,) Gallia (*prope* Iſſy,) Pedemontio (*prope* Alice,) Carniolia (*prope* Idria,) Auſtria (*prope* Prugg *ad flavium* Leutha & Mannersdorf,) Wirtembergia (*prope* Boll, Echterdingen, Bebenhauſen, Heydenheim,) Suecia (*prope* Reutlingam & Halam,) Palatinatu rhenano. Franconia (*prope* Altdorf & Herbipolim,) Haſſia (*in monte* Weiſſenſtein & *prope* Gundersberg,) Saxonia *ſuperiori* (e. gr. *prope* Geram & Querfurt,) Hildeſia (*prope* Dickolſen & *in monte* Winterberg, *in circulo* Germaniæ weſtphalico (*prope* Tongern & Aquisgranum,) *utplurimum marmoreus, interdum marga, ardeſia, pyromachus, arenarius, pyrites, ferri minera, haud raro nucleus.*

b. ſubtiliter ſtriatæ.

in Anglia (*prope* Charlton,) Hercynia (*prope* Oſterwalde,) Thuringia (*prope* Vinariam & Longoſaliſſam.) Saxonia, Luſatia *inferiori* (*prope* Wehrau,) Bohemia (*prope* Pragam.) Moravia (*prope* Felſperg,) Hungaria (*prope* Turrik,) Auſtria (*prope* Waring,) Wirtembergia (*prope* Boll, Heydenheim, Bebenhuſam, Pfullingen, Vaihengen,) Alſatia (*prope* Buchsweiler & Waldenheim) & Helvetia (*in monte* Randberg,) *utplurimum marmoreus, interdum ſuillus, pyrites aut ferri minera.*

c. rugoſæ vel plicatæ.

prope Romam, *in* Helvetia, Wirtembergia (*prope* Boll, Echterdingen, Naehren,) Suevia (*in monte* Achalm. *prope* Reutlingen & Gmünd.) Palatinatu (*prope* Weinheim) & Haſſia (*prope* Weiſſenſtein) *marmoreus aut pyriticoſus.*

d. cancellatæ.
in Occitania (*prope* Mouſſon) & Wirtembergia (*prope* Thalheim.)

ſpondyli. 13. H. ſpondyli.
α. gæderopodis.
in America, Helvetia (e. gr. *in monte* Randberg,) Wirtembergia (*prope* Bebenhuſam, Pfullingen, Næhren, Grosbettlingen, Næhren & Echterdingen) & Flandria (*prope* Inſulas,) *non raro pyritoſus.*
β. regii.
in Auſtria *ſuperiori* (*prope ſalinas*) *marmoreus.*

Chamites. 14. H. chamæ.
α. cordis.
in Italia (*prope* Bononiam,) Cmapania gallica, Auſtria (*prope* Prugg, Brunn & Ottokrin,) Bohemia (*prope* Duchomierziz) & Hildeſia (*prope* Hohenbruche.)
β. gigantis.
in India & (*ferri minera*) Wirtembergia (*prope* Heidenheim.)
γ. hippopedis.
in Italia (*prope* Veronam) & Sileſia (*prope* Naumburg *ad fluvium* Queis) *in arenario.*
δ. caliculatæ.
ε. Lazari.
ζ. gryphoidis.
in Anglia (*prope* Weymouth,) Occitania (*prope* Mouſſon,) Bavaria (*prope* Ratisbonam & Temeſia (*prope* Valcabanya.)
η. bicornis.
in Occitania (*prope* Monſpelium) & Lotharingia (*prope* Verdun.)
θ. foliaceæ.
in Campania gallica.

Arcæ. 15. H. arcæ.
hinc inde in Germania, e. gr. Saxonia (*prope* Dresdam,) Thuringia (*prope* Jenam,) *terris* Hannoveranis (*prope* Neuſtadt,) Haſſia, Helvetia e. gr. (*prope* Roche) & Italia (*prope* Bononiam.)
α. arcæ Noe.
in Pedemontio (*prope* Auguſtam Taurinorum) & Venetorum *terra* (*prope* Creazzo) *nucleut.*
β. foſſilis. *Schrœt. n. Litterat.* 2. *f.* 3. 4.
γ. antiquetæ.
in America *meridionali*, Temeſia (*prope* Valcabanya.)

δ. granoſæ.

in Hungaria (*prope* Œdenburg) & Angliæ *comitatu* Oxford;

ε. pectunculi.

prope Trajectum *ad* Moſam, *marmoreus.*

ζ. nummariæ.

in Francovia (*prope* Herbipolin,) Suavia (*prope* Reutlingam,) Wirtembergia (*prope* Pfullingen, Thalheim, Næhten, Bebenhauſen, Heidenheim,) *marmoreus aut ferri minera, interdum nucleus aut typolithus.*

Oſtreæ. 16. H. oſtreæ.

Pectinites. α. radiatæ.

in Anglia (*prope* Wittney & Graveſand,) Belgio (*prope* Trajectum *ad* Moſam,) Gallia (*prope* Buchsweiler & Aveniores,) Melita, Italia (*prope* Bononiam,) Helvetia (e. gr. *in monte* Randberg,) Wirtembergia (*in monte* Achalm & Hangberg (*prope* Tuttlingen, Pfullingen, Nebelloch, Beſingen, Mæhringen, Thalheim, Næhren, Echterdingen, Bebenhauſen, Boll, Heidenheim,) *in marcgraviatu* Badenſi & *reliqua* Suevia (*in valle* Kinzingenſi, *prope* Hechingen, Biberach, Giengen & Halam.) *in* Franconia (*prope* Altdorf & Herbipolin,) Haſſia, *electoratu* Trevirenſi (*prope* Liſſingen) Hildeſia (*prope* Dickolzen & *in monte* Galberg,) Saxonia (e. gr. *prope* Dresdam & Sachſenburg,) Bavaria *prope* Ratisbonam,) Auſtria (e. gr. *prope* ſalinas & Prugg *ad fluvium* Leutha,) Hungaria (*in comitatu* Marmoros, Temeſia, Sileſia (*prope* Schweidnis) *cretaceus, marmoreus, ſuillus, margaceus, pyromachus, arenarius, pyriticoſus, ferruginoſus, ſæpe nucleus, interdum typolithus.*

a. maximæ.

in terris Venetorum (*montibus* Vicentinis.) Melita, Croatia (*prope* Samabor,) Hungaria (*prope* Œdenburg & *ſalinas* Marmaroſenſes,) Gallicia (*prope* Wieliczka,) Bohemia (*prope* Presniz,) Auſtria (*prope* Brunn & Suevia (*prope* Giengen,) *magnus, marmoreus, arenarius aut ferri minera.*

b. jacobææ.

in Pedemontio (*prope* Arignano,) Germania *prope* Camelingen *circuli* Bavarici, Paſſau & Brunn Auſtriæ, Hungaria (*prope* Œdenburg & Lapos) & Belgio (*prope* Malsbroek & Theodonis villam,) *marmoreus aut arenarius.*

c. zigzag.
in Belgio (*prope* Theodonis villam) & Alſatia (*prope* Gundershofen.)
d. minutæ.
in Auſtria (*prope* Brunn) & Bohemia (*prope* Libochowiz,) *marmoreus aut margaceus.*
e. ſtriatæ.
in Saxonia (*prope* Querfurt & Thuringia (*prope* Vinariam ,) *marmoreus.*
f. pleuronectis.
in Suevia (*prope* Reutlingen) & Thuringia (*ad montem* Ettersberg , *prope* Schœndorf & alte Burg.)
g. pallii.
in Bohemia (*prope* Odolca,) Saxonia (*prope* Quedlinbur,) Alſatia (*prope* Waldenheim & Helvetia (*in monte* Randberg & *prope* Ariſtorf,) *utplurimum marmoreus.*
h. nodoſæ.
in Alſatia (*prope* Buchsweiler.)
i. puſionis.
in Belgio (*prope* Malsbrœk,) Marchin (*prope* Francofurtum) & Bohemia (*prope* Duchomierziz ,) *marmoreus.*
k. glabræ.
in circulo, Germaniæ Saxonico ſuperiori (*prope* Quedlinburg & Bavarico (*prope* Camelingen.)
l. faſciatæ.
in Bohemia (*prope* Odolca.)
m. limæ.
in Helvetiæ *pago* Baſileenſi (*prope* Ariſtorf.)

Oſtracites. β. rudis.
frequens, ſolitarius vel aggregatus, vagus vel fixus, interdum nucleus aut typolithus, utplurimum marmoreus, in Italia *media* (*prope* Sienam & *in monte* Rozzi) & *ſuperiori* (*in* Pedemontio *prope* Alice & *in valle* d'Andona, *in* Venetorum diſtrictu Vicentino & Veronenſi,) Helvetia (*prope* Huitlingen, *in monte* Randberg, *prope* Brittmingen, Aluttenz, Ariſtorf & *ad ripas* Birſæ,) Alſatia (*prope* Buchsweiler ,) Wirtembergia (*in monte* Hangberg, *prope* Tuttlingen, Nebelloch, Pfullingen , Mehringen, Thalheim, Næhren, Bebenhauſen, Echterdingen, Grosbettlingen, Boll) & *reliqua* Suevia (*prope* Bibera & Giengen,) Franconia, Hercynia (*in* Oſterfeld *prope* Goslar,) Hildeſia (*in monte* Galberg & Zumerpaſs,) *terris* Hannoveranis (*ad montem* Rübenberg ,) *circulo* Weſtphalico (*prope* Duisburg, Muhlheim, Dahlbenden & Weier,)

Belgio (*prope* Trajectum *ad* Moſam,) Anglia (*prope* Oxford & Hedington,) Scania, Thuringia (*parte* Vinarienſi & *prope* Quedlinburg.) Saxonia (*prope* Sachſenberg, Marolderodam & Dresdam,) Hungaria (*prope* Budam,) Marmoros & *montibus hoc regnum* a Tranſilvania *diſcernentibus* & Temeſia (*prope* Valiabanya.)

a. diluvianæ.

Syſt. nat. XII. 3. *p.* 165. *n.* 8. Helmintholithus (diluvianus) Oſtreæ diluvianæ.
Davil. curioſ. 1. *t.* 19. *f.* X. Oſtrea indica Fenillé.
in Suecia (*præſertim* Scaniæ *monte* Balsberg,) Germania, Alſatia, *marmoreus.*

b. folii.

in Suevia (*prope* Giengen) pyromachus, *in* Alſatia, *marmoreus.*

c. edulis.

in Hungaria (*prope* Œdenburg, Budam, Marmoros) *marmoreus.*

anomites. 17. H. anomiæ.

Syſt. nat. I. *p.* 1150. XII. 3. *p.* 163. *n.* 4. *Muſ. Teſſin* 88. Helmintholithus anomiæ deperditæ.
interdum vagus, crebrius fixus, aggregatus, aliis quoque larvatis intermixtus; utplurimum marmoreus, interdum cretaceus, pyritaceus aut ferruginoſus, frequenter nucleus, in Scania (*prope* Andrarum,) Anglia (*prope* Witney & Graveſand,) Belgio (*prope* Trajectum *ad* Moſam,) Germania & *circulo quidem* Weſtphalico (e. gr. *prope* Bensbergen, Lirbach, Paffrath, Gerresheim, Solingen, Minden, Elberfeld, Call, Nothberg, Bloch,) *terris* Trevirenſibus (*prope* Liſſingen,) Saxonia *inferiori* (e. gr. *prope* Lubeccam, *in monte* Hildeſienſi Galberg, Gœttingenſi Heimberg,) Thuringia (*prope* Jenam, Vinariam, Schlotheim, Marolderode & Sachſenburg,) Franconia (*prope* Bayreuth & Altdorf,) Bohemia (*prope* Carlſtein & Tüchmeriz,) Bavaria (*prope* Waldenburg,) Auſtria *inferiori* (*prope* Viennam) & *anteriori* (*prope* Eutingen & Rotenburg,) Suevia (*prope* Reutlingam & Halæ,) Wirtembergia (*frequentiſſimus*,) Alſatia (*prope* Buchsweiler,) Helvetia (*in pago* Baſileenſi, *etiam in montibus* Lagerberg & Randberg,) Pedemontio, Venetorum *terra* (*montibus* Veronenſibus. Ronca & Scoglio della Limpia.)

α. craniolaris.

Syſt. nat. I. *p.* 1150. *n.* 216. XII 3. *p.* 164. *n.* 6. *Faun. ſuec.* 2150. *f.* 2150. Helmintholitus (craniolaris) anomiæ craniolaris.

Act. Upſal. 2. *p.* 560. *t.* 52. *Stobæi numogr.* 1732. *f.* 1. 2. Nummus brattensburgenſis.

in Suecia, *præſertim* Scaniæ *monte* Balsberg & Eifalia (*prope* Steinfeld)

β. pectinatæ.

Syſt. nat. I. *n.* 217. XII. 3. *p.* 163. *n.* 4. α.

γ. gryphi.

Syſt. nat. I. *p.* 1151. *n.* 226. XII. 3. *p.* 164. *n.* 7. Helmintholitus (Gryphites) Anomiæ Gryphi.

Column. aq. 54. *t.* 52. *Bocc. obſ.* 304. *f.* 1. Concha lapidea gibboſa.

Woltersd. miner. 42. Conchites oblongus rugoſus, roſtro valde adunco.

Liſt. angl. 238. *t.* 4. *f.* 45. *Worm. muſ.* 80. *f.* 1. Conchites anomius rugoſus, roſtro ſubtereti inſigniter adunco.

Muſ. Teſſin. 92. *t.* 5. *f.* 9. *Scheuchz. diluv.* 743. *Act. bon. baſil.* 1748. *p.* 3. *t.* 3. *f.* 5 *Vogel miner.* 225. *Rumpf muſ. t.* 59. *f.* B. Gryphites.

ſæpius vagus & teſta ſolitaria majore, quam utraque conjuncta, utplurimum marmoreus, interdum pyromachus aut pyriticoſus, crebro nucleus, in terræ Venetorum *parte* Veronenſi (*monte* Scoglio della Limpia,) Helvetia (*e. gr. in monte* Turicenſium Legerberg & *prope* Baſileam,) Gallia (*prope* Veſuntionem Burgundiæ *ſuperioris*, Mezieres Campaniæ & Buchsweiler Alſatiæ,) Wittembergia (e. gr. *prope* Balingen, Duslingen, Tubingen, Bebenhauſen,) Suevia (*prope* Ahlen,) *prope* Ratisbonam & Francofurtum *ad* Moenum,) *prope* Norimbergam & *paſſim in reliqua* Franconia, *in* Auſtria (*prope ſalinas* & Varing,) Bohemia (e. gr. *prope* Duchomierziz & Squorez,) Gallicia (*prope* Wieliczca,) Saxonia *ſuperiori* (*prope* Dresdam, Altenburg, Kœniz, Gera, Eckartsberg.) Magdeburgo (*prope* Orsleben.) Hercynia (*prope* Blanckenburg, Goslar & *ad* Hüttenſteig,) Hildeſia (*prope* Altwalmoden,) Weſtphalico *circulo* (*prope* Osnabrügg, Bensberg, Kœnenberg & Sœtenich,) *in* Belgio (*prope* Trajectum *ad* Moſam.

δ. pectinis.

Syſt. nat. I. 227. XII. 3. *p.* 163. *n.* 4. β.

vagus aut fixus , *ſolitarius aut aggregatus* , *valva alterutra vel utraque* , *interdum typolithus* , *crebro nucleus* , *creberrime calcareus*, *interdum pyritaceus*. *rarius ferruginoſus aut pyromachus in* Anglia (*prope* Wittney,) Belgio (*prope* Namuriam & Viſet,) Germania & *circulo quidem* weſtphalico (*prope* Kebirghauſen , Ringensheide , Paffrat, Geroldſtein, Heiſtert, Dollendorf, Corneli-Munſter.) ſaxonico *inferiori* (*prope* Brunsvicum) & *ſuperiori* (e. gr. *prope* Lipſiam,) franconico (*prope* Altdorf,) bavarico (*prope* Ratisbonam,) auſtriaco (*in monte* innerer Bleyberg Carinthiæ, *prope* Prugg Auſtriæ, *in* Tiroli,) ſuevico (*prope* Heydenheim, Nebelloch, Pfullingen, *in monte* Achalm, *prope* Bezingen, Næhren, Echterdingen, Boll, Ludwigsthal Wirtembergiæ, *prope* Ahlen & Hohenzollern) *in* Helvetia (e. gr. *in monte* Randberg,) Italia, Boruſſia. Sileſia (e. gr. *prope* Schweidniz, Malſelt & *in montibus* giganteis.)

ε. ſtriatulæ.

Syſt. nat. I. *n.* 228. XII. 3. *p.* 163. *n.* 4. γ.

marmoreus, *rarius pyritaceus* , *in* Anglia (*prope* Wittney,) Bohemia (*prope* Krannich.) Wirtembergia (*prope* Blieſpach,) Alſatia (*prope* Buchsveiler) & Helvetia (*in pago* Baſileenſi & *prope* Huitlingen, Bernenſi.

ζ. reticularis.

Syſt. nat. I. *n.* 230. XII. 3. *p.* 163. *n.* 4. δ. *Muſ. Teſſin.* *t.* 5. *f.* 5.

marmoreus , *rarius pyritaceus in* Germania , *circulo* Weſtphalico (*prope* Paffrath, Geroldſtein & Dollendorf, Wirtembergia (e. gr. *prope* Echterdingen,) Bohemia (*prope* Coſorz,) Hungaria (*ad lacum* Baladon) & Campania gallica (*prope* Courtagnon.)

η. plicatellæ.

Syſt. nat. I. *n.* 231. XII. 3. *p.* 163. *n.* 4. ε.

marmoreus in Eifalia (*prope* Blankenheim,) Suevia (*in alpibus quos vocant* , *in monte* Hangberg , *prope* Boll & Pfullendorf,) *in* Alſatia (*prope* Buchsweiler.)

ϑ. criſpæ.

Syſt. nat. I. *n.* 232. XII. 3. *p.* 163. *n.* 4. ζ. *Muſ. Teſſin.* *t.* 5. *f.* 7.

calcarius , *rarius pyritaceus in* Wirtembergia (e. gr. *alpibus* , *etiam prope* Mehringen & Echterdingen.)

ι. lacunoſæ.

Syſt. nat. I. *n.* 233. XII. 3. *p.* 163. *n.* 4. η. *Muſ. Teſſin.* *t.* 5. *f.* 6.

marmoreus, rarius ferruginoſus, *in* Hercynia (*prope* Goslariam,) Wirtembergia (*prope* Blabyram, Heidenheim, Denkendorf, Echterdingen,) Alſatia (*prope* Buchsweiler) & Campania gallica (*prope* Courtegnon.)

κ. farctæ.

Syſt. nat. I. *n.* 235. XII. 3. *p.* 163. *n.* 4. ϑ.

marmoreus, *in* Sueciæ Gothlandia, Campania gallica (*prope* Mezieres) & Auſtria (*prope* Varing.)

λ. capitis ſerpentis.

marmoreus, *in* Eifalia *prope* Beandorf.

Terebratulites. μ. terebratulæ.

creberrime nucleus, frequentius fixus, quam vagus, calcareus, interdum ſiliceus aut ferruginoſus, nonnunquam creta aut ſpato farctus in Anglia (e. gr. *prope* Wittney & Graveſand,) Germaniæ *circulo* Weſtphalico (*prope* Benndorf & Minden,) ſaxoniæ (e. gr. *prope* Jenam,) franconico (*prope* Bayreuth & Altdorf,) bavarico (*prope* Ratisbonam,) auſtriaco (*prope* Varing, Eutingen & Rotenburg.) ſuevico (*prope* Reutlingam, Giengam, Halam) & Wirtembergia *præſertim in montibus, quos alpes vocant, porro* Hangberg & Heuberg, (*prope* Heidenheim, Blabyram, Nebelloch, Tutlingen, Balingen, Oſterdingen, Duslingen, Næhren, Bezingen, Imenhauſen, Bebenhauſen, Echterdingen,) Alſatia (*prope* Buchsweiler & Waldenheim,) *in* Helvetia (*prope* Muttenz, *in montibus* Randberg & Lagerberg) & *in* Pedemontio (*prope* Arignano.)

ν. angulatæ.

Syſt. nat. I. *n.* 238. XII. 3. *p.* 163. *n.* 4. ι. *Muſ. Teſſin. t.* 5. *f.* 4.

in Saxonia, Wirtembergia (*in alpibus,*) Helvetia (*in monte* Randberg) & Campania gallica (*prope* Courtagnon.)

Hyſterolithus. ξ. hyſteritæ.

Syſt. nat. I. *p.* 1154. *n.* 239. XII. 3. *p.* 164. *n.* 5. Helmintholithus anomiæ hiſteritæ.

Muſ. Teſſin. 90. *t.* 50. *f.* 2. *Worm. muſ.* 83. *t.* 83. *Wolff. halſ.* 29. *t.* 3. *f.* 3. 4. 5. *Baum. miner.* I. *t.* 20. Hyſterolithus.

Woltersd. miner. 42. Cochlites rotundus altera parte vulvam præ ſe ferens.

Vogel mineralſ. 226. Lapis hiſtericus & Anomia gleich Geburtsgliedern.

nucleus, creberrime ferruginoſus, interdum ſiliceus, præſertim arenarius in Germania, e. gr. Haſſia, *electorati*

Moguntino (*prope* Oberlahnſtein,) Trevirenſi (*prope* Ehrenbreitſtein & Marienburg,) *circulo* Weſtphalico (*prope* Lülſtorp, Bechen, Hœckeswagen, Wipperfurth,) Hercynia (*in monte* Schulenberg,) *in* Sueciæ Gothlandia.

ο. bilobæ.
Syſt. nat. I. *n.* 240. XII. 3. *p.* 163. *n.* 4. *x*.
in Anglia & *marmoreus in* Wirtembergia (*prope* Næhren.)

π. ſpinoſæ.
Syſt. nat. I. *n.* 242. XII. 3. *p.* 163. *n.* 4. λ.
in Wirtembergiæ *monte* Achalm.

ρ. novemſtriatæ.
Syſt. nat. XII. 3. *p.* 163. *n.* 4. μ.

σ. echinatæ.
in Helvetiæ *pago* Baſileenſi (*prope* Muttenz) & Wirtembergia (*prope* Næhren.)

τ. criſtatæ.
in Suevia (*prope* Pfullendorf) & Wirtembergia *præſertim* (*prope* Nebelloch, Bezingen, Mæhringen, Echterdingen.)

Sandaliolithus. υ. ſandalii.
in Bohemia (*prope* Coſors) & Eifalia (*prope* Keldenig, Sœtenich &c. *rarius valva utraque conjuncta, utplurimum calcarius.*

Peridiolithus. φ. peridii.
in circulo Germaniæ weſtphalico (*prope* Munſtereifeld) *valva utraque conjuncta.*

Mytilites. 18. H. mytili.

α. cryſtæ galli.
utplurimum marmoreus & vagus, frequentius valva utraque, quam alterutra, ſæpe inſignis magnitudinis, in Melita, *montibus* Sevennis, *in* Occitanio (*prope* Boutenet,) Normandia (*prope* Dive,) Alſatia (*prope* Waldenheim,) Helvetia (e. gr. *prope* Ariſtorf *pagi* Baſileenſis,) Suevia (e. gr. *principatu* Furſtenbergenſi,) Wirtembergia (*prope* Blabyrum, Thalheim, Echterdingen,) Bohemia (*prope* Odolce) & *circulo* Germaniæ weſtphalico (*prope* Duisburg.)

β. hyotidis.
marmoreus in Helvetia (*prope* Ariſtorf) & Alſatia (*prope* Waldenheim.)

γ. frondis.
in Suecia (*prope* Criſtianſtadt,) Belgio (*prope* Trajectum *ad* Moſam,) Suevia (*prope* Giengen & Gmund,) Alſatia

(*prope* Buchsweiler,) Normandia, Occitania (*prope* Monſpelium & Melita, *marmoreus, arenarius aut ſiliceus.*

δ. margaritiferi.

a. valvæ integræ.

in Helvetia (*prope* Ariſtorf.)

b. tendinis ad cardinem poſiti.

Syſt. nat. XII. 3. *p.* 165. Helmintholithus (Androdamas) mytili margaritiferi cardinis viridis.

Muſ. Teſſ. 24. *n.* 2. Penna pavonis viridi cæruleſcens.

opacus quidem, ſed eggregiam polituram admittens & pro ſitu & flexione verſus lucem vividiſſimis coloribus varians.

ε. unguis.

in Hercynia (*prope* Goslariam) *in argilla.*

ζ. lithophagi.

in Wirtembergia (*prope* Thalheim.)

η. rugoſi.

marmoreus in Auſtria (*prope* Varing.)

θ. edulis.

utplurimum fixus & calcarius, interdum arenarius aut ferruginoſus in Pedemontio (*prope* Vico,) Wirtembergia (*prope* Boll & Tuttlingen,) *reliqua* Suevia (*prope* Halam,) Auſtria (*prope* Eur ngen & Prugg *ad fluvium* Leutha,) Bohemia (*prope* Tuchmeriz,) Franconia (*prope* Herbipolin,) Thuringia (e. gr. *prope* Vinariam) & Saxonia (*prope* Querfurt.)

ι. angulati.

marmoreus in Saxonia (e. gr. *prope* Lipſiam) & Haſſia.

κ. Modioli.

utplurimum, fixus & marmoreus, in Wirtembergia & Thuringia (*prope* Longoſaliſſam & Vinariam.)

λ. cygnei.

magnus in Wirtembergia (*prope* Thalheim.)

μ. anatini.

marmoreus in Wirtembergiæ (*alpibus, quos vocant, præſertim prope* Thalheim.)

ν. rubri.

in Helvetiæ (*prope* Heutlingen) *ardeſia*, Saxoniæ (*prope* Pirnam) *arenario* & Hercynia (*prope* Blankenburg.)

Pinnites, 19 H. pinnæ.

in Pedemontio, Helvetia (*prope* Ariſtorf,) Franconia & (*prope* Pirnam & Dresdam) Saxonia.

c. univalvium.

Nautilites. 20. H. nautili.

α. ſpiralis.

a. anfractu exteriore reliquos multum ſuperante.

frequentiſſimus, utplurimum marmoreus, interdum pyritaceus, rarius ſiliceus in Africa, Italia (*in* Venetorum *terris* vicentina & veronenſi,) Gallia (*in monte* aureo & *prope* Retel & Mezieres Campaniæ,) *in* Anglia (*in comitatibus* Northampton & Kent. *etiam prope* Richmond & *in inſula* Shepey,) *in* Belgio (*prope* Viſet, *in* Germaniæ *circulo* weſtphalico (*prope* Paffrath & Bensberg,) Hildeſia (*in* Oſterfeld .) *terris* Brunsvicenſibus (*prope* Schoppenſtædt & Neuſtadt *ad montem* Rubenberg,) Hercynia (*prope* Harzburg & Goslariam *in monte* S. Petri,) Thuringia (*prope* Longoſaliſſam, Arnſtadt, Sondershauſen, Elperſtædt. Vinariam, Marolderadam, Schlotheim,) Saxonia (*prope* Querfurth,) Franconia (*prope* Coburgum, Herbipolin, Norimbergam,) Suevia (*prope* Gmund) & *potiſſimum* Wirtenbergia, (*in agribus, quos vocant, prope* Kirchoteccam, Boll, Bebenhuſam. Jetenburg, Bezingen, Næhren, Thalheim, Durlingen. Balingen) *principatibus* Hohenzollerano (*prope* Hechingen) & Furſtenbergenſi, *marcgraviatu* Badenſi (*prope* Lutgeren,) Helvetia (*prope* Baſileam & Arilorf *ejusdem pagi, in montibus* Legerberg & Randberg, *prope* Deutſchburen, Geisberg, Gyliſluh, Mandach, & Veltheim Bernatium, *etiam prope* Genevam,) *in* Auſtria *ſuperiori* (*prope* ſalinas) & *inferiori* (*prope* Varing, Hungaria (e. gr. *prope* Œdenburg,) Temeſia (*prope* Moldawa) & Tranſilvaniæ (*prope* Kalataszeg.)

Ammonites. b. ſpiræ anfractibus introrſum ſenſim decreſcentibus.

Syſt. nat. XII. 3. *p.* 162. *n.* 1. Helmintholithus nautili teſta ſpirali, apertura cordata, anfractibus contiguis rugoſo-inæqualibus.

Vogel mineralſ. 220. *Wolff. halſ. t.* 7. *f.* 1. 3. & *t.* 8. *f.* 6. Cornu ammonis lapideum.

Wolterſl. miner. 40. Cochlites polythalamius, ſpiræ utrinque apparente, ſiphunculo ad marginem exteriorem.

Muſ. Teſſin. 86. *t.* 4. Helmintholithus teſtacei nautili.

Geſn. petrif. 47. *Geſn. fig.* 164. *f.* 4. Ammonites.

1. *Muſ. teſſin. f.* 11. ambitu acuto integro, diſco compreſſo, ſuturis flexuoſis.

2. *Muſ. Teſſin. f.* 10 ambitu carinato integro, diſco compreſſo, ſulcis bifidis.

3. *Muſ. Teſſin. f.* 9. *Worm. muſ.* 91. ambitu carinato crenato, diſci ſulcis elevatis remotis.

4. *Muſ. Teſſin. f.* 7. *Worm. muſ.* 86. ambitu obtuſo, diſco compreſſiuſculo ſtriato.

5. *Muſ. Teſſin. f.* 2. ambitu obtuſo, diſco depreſſo, ſulcis dorſi bifidis.

6. *Muſ. Teſſin f.* 8. ambitu depreſſo, diſci lateribus nodoſis.

7. *Muſ. Teſſin. f.* 3. ambitu depreſſo, diſci ſtriis acutis.

8. *Muſ. Teſſin. f.* n. δ. ambitu ſubquadrato carinato, ſulcis acutis remotis.

9. *Muſ. Teſſin. f.* 1. ambitu rotundato nodoſo, ſulcis tranſverſis flexuoſis.

frequentiſſimus ubique, rarius nucleus aut typolithus, utplurimum marmoreus, interdum ſcillus, margaceus, argillaceus, petroſiliceus, achatinus, pyritaceus aut ferrugineoſi nonnunquam cameris interioribus ſpato farctis, magnitudine, forma, ſuperficie, colore in infinitum varians.

c. helicitæ.

mormoreus, vagus aut fixus, ſolitarius aut aggregatus Lapponia, Gothlandia, Hiſpania, Gallia (*prope* S. Jonem, Luterias, Chaumont & *in monte* Cæſareo,) Italia (*prope* Brendola, Bononiam & *in monte* Veronenſi Ronca,) Hungaria (*prope* Penjescova,) Tranſilvania (*prope* Torda,) Auſtria ſuperiori (*prope* ſalinas, *prope* Prugg & Gmund,) Stiria (*prope* Turrik,) Helvetia (*prope* Aubrig, Neoromum, *aquas* Fabarienſes, *in pago* Baſileenſi, *monte* Pilati.)

β. elongati, rectiuſculi.

Lituites. a. litui.

fixus utplurimum marmoreus, haud raro typolithus, in Sueciæ Gothlandia & Œlandia, Normandia, Italia (*in monte* Veronenſi dei Caſtello di S. Felice,) Bohemia (*prope* Coſors) & *ducatu* Megalopolitano (*prope* Stargard & Neuſtreliz.)

Orthoceratites. b. orthoceræ.

Syſt. nat. I. *p.* 1164. *n.* 289. XII. 3. *p.* 162. *n.* 2. Helmintholithus nautili orthoceræ.

Muſ. Teſſin. 86. *Schreb. lithol.* 102. *n.* 13. Helmintholithus nautili recti.

Breyn polyth. 28. *Vogel mineralſ.* 216. Orthocerotes.

Scheuchz. diluv. 938. *helv.* 7. *f.* 8. Alveolus.

J. G. Gmelin. act. petrop. 3. *p.* 246. Radius articulatus.

Woltersd. miner. 38. Tubulites polythalamius coniformis ſiphunculis & thalamis &c.

Klein tubul. 7. *t.* 2. 8. Tubulus concameratus.

vagus aut fixus, ſolitarius aut gregarius rarius typolithus aut nucleus, utplurimum marmoreus, interdum ſpatoſus, ardeſia, arenarius, pyritaceus aut ferruginoſus, in Sibiria, Suecia (*in* Œlandia, Gothlandia, Weſtrogothia, Oſtrogothia, Dalecarlia, *in monte* Kinnekulle,) Anglia, Gallia (Normandia, *prope* Avenionem, Gundershofen & Buchsweiler, Alſatiæ,) Suevia (*prope* Gmund) & *præſertim* Wirtembergia (*prope* Heydenheim, Boll, Gomaringen, Pfullingen, Næhren, Bebenhauſen, Echterdingen,) Helvetia, Pedemontio (*prope* Arignano,) Tranſilvania (*prope* Kismunſchol,) Bohemia (*prope* Slivenez, Coſors, Brunik & Tettin,) Boruſſia (*prope* Gedanum,) Pomerania, Marchia (e. gr. *prope* Francofurtum,) *ducatu* Megapolitano (e. gr. *prope* Stargard & Neuſtreliz,) Hercynia (e. gr. *prope* Blankenburg) & *circulo* Germaniæ weſtphalico (*prope* Norhberg, Bensberg, Paffrath, Kebinghauſen, Keldenich, Cali, Dahlbenden, Dotleben & Aquisgranum.)

Belemnites. c. belemnitæ.

Syſt. nat. I. *p.* 1295. *n.* 7. XII. 3. *p.* 170. *n.* 22. Helmintholithus Alcyonii lyncurii.

Muſ. Teſſin. 88. *Gron. lap.* 71. Helmintholithus nautili conici.

Schreb. lith. p. 47. Petrificata vermium holothuriorum.

Woltersd. miner. 38. Tubulites polythalamius coniformis, cavitate coniformi baſeos.

Klein gedan. 1731. 4. *t.* 7. 8. 9. Tubulus marinus.

Gesn. lap. 92. *Dal. pharm.* 50. *Rumpf. muſ. t.* 50. *f.* 1-5. *Baub. boll. f.* 32.

Breyn. polythal. 41. *f.* 1. 7. Belemnites pruſſicus.

Aldrov. muſ. 618. *Worm. muſ.* 7. *Geſn. petr.* 40. *Geſn. figur.* 91. Belemnites.

Erhart diſſ. Wien. 1727. 4. *f.* 2. Belemnites ſuevicus.

frequentiſſimus, vagus aut fixus, rarius ſolitarius, quam aggregatus, crebro merus nucleus, rarius typolithus non raro diaphanus, ſuccineus, ſubfuſcus, albidus, frequentius niger, utplurimum cinereus, rectus vel pauliſper arcuatus, cylindricus, conicus, ſubclavatus vel fuſiformis, compreſſiuſculus, acuminatus vel obtuſiuſculus, ſulco, interdum duobus vel tribus apicem verſus exaratus, cavus intus vel farctus tenuis vel craſſus in Creta (*monte* Ida,)

Dalmatiæ *montibus*, Hetruria, Italia *ſuperiori*, *præſertim* Pedemontio (e. gr. *prope* Auguſtam Taurinorum.) Helvetia (e. gr. *in pago* Bernenſi, *in monte* Randberg, *in pago* Baſileenſi *ad fluvium* Birſam, *prope* Muttenz & Prattelen,) *in* Alſatia, Lotharingia, Galliæ *provinciis* Lugdunenſi, Forez & Beaujolois, Hiſpania, Belgio (*prope* Sichem & Trajectum *ad* Moſam) Anglia (e. gr. *prope* Warwick,) Scotia, Daniæ *inſula* Moen, Sueciæ *provinciis* Scania & Gothlandia, Boruſſia (*potiſſimum diſtrictu* Angerburgenſi,) Sileſia, Bohemia (*prope* Miſchek, Coſors & Tettin,) Tranſilvania (*prope* Kiesmunchel,) Auſtria *ſuperiori* (*prope* ſalinas,) Bavaria, Suevia (*prope* Laufenburg & Gmünd) & *præſertim* Wirtembergia (*in alpibus, quos vocant,*) (*prope* Pfullingen, Thalheim, Næhren, Gemaringen, Mezingen, Bebenhauſen, Echterdingen, Nüslingen, Boll, Tuttlingen,) Franconia (*prope* Altdorf & Norimbergam, *in principatibus* Baruthino & Coburgenſi,) *in* Marchia Brandenburgica (*prope* Potsdam & Francofurtum,) Saxonia, Thuringia (*prope* Vinariam,) Hercynia (*prope* Goslariam,) Hildeſia (*prope* Hallam, Oſterwalde, Izamerpaſo & Marienburg,) *terris* Brunsvicenſibus (e. gr. *in monte* Gœttingenſium Heimberg, *prope* Salzthal, Herrenhauſen,) Holſatia (*prope* Lubeccam & Niemdorp,) & *circulo* Germaniæ Weſtphalico (*prope* Paffrath, Dottelen, Bensberg, Erkrath, Olzbach, Call, Dahlbenden, Keldenig, Eigeshoven, Nothberg, Richterich & Aquisgranum,) *marmoreus*, *ſuillus*, *jaſpideus*, *arenarius*, *pyritaceus aut ferruginoſus*.

coni. 21. H. coni.
rarior, *utplurimum nucleus marmoreus*, *in* Pedemontio, Helvetia (*prope* Neocomum) & Tranſilvania (*prope* Kiesmunſchel.)

Porcellanites. 22. H. cypreæ.
marmoreus in Pedemontio (e. gr. *prope* Auguſtam Taurinorum,) Auſtria (*prope* Prugg *ad fluvium* Leutha) & *ducatu* Megalopolitano (*prope* Sternberg.)

Bullites. 23. H. bullæ.
in ducatu Juliacenſi *prope* Nothberg.

Cylindrites. 24. H. volutæ.
utplurimum marmoreus in Helvetia (Turicenſium *monte* Hexenberg,) Pedemontio (*prope* Auguſtam Taurinorum & Canale,) Venetorum *terris* (*prope* Veronam, Auſtria

(*prope* Varing,) Saxonia (*prope* Dresdam,) *circulo* Germaniæ Weſtphalico (*prope* Gerresheim.)

buccini. 25. H. buccini.

α. ampullacei.

in circulo Germaniæ weſtphalico (*prope* Rotenburg, Ludenburg, Galgenberg, Hartenberg & Graveuberg.)

β. caſſidei.

marmoreus in Italiæ *mediæ monte* Cria.

γ. bezoardici.

ſæpius nucleus, utplurimum calcarius, rarius pyriticoſus in Anglia (e. gr. *in collibus prope* Hampton,) Belgio (*prope* Trajectum *ad* Moſam,) Helvetia (e. gr. *prope* Baſileam,) Pedemontio (e. gr. *prope* Auguſtam Taurinorum,) Hetruria (*prope* Sienam,) Venetorum *terris* (*prope* Veronam & Brendolam,) Melita, Dalmatia (*in collibus* Morlachicis,) Hungaria (*prope* Budam & Schemniz,) Tranſilvania (*prope* Kismunchel,) Carniolia (*prope* Crapt,) Auſtria (*prope* Prugg *ad fluvium* Leutha & Mannersdorf,) Bavaria, Saxonia (*prope* Dresdam,) *Ducatu* Megalopolitano (*prope* Sternberg,) Hercynia (*prope* Goslariam,) Hildeſia (*prope* Lambſpring & Upnerpaſs) & *in circulo* Germaniæ Weſtphalico (*prope* Bensberg, Nothberg, Call, Richterich.)

δ. detriti.

in Pedemontio.

a. harpæ.

b. marginati.

ε. turriti.

utplurimum nucleus marmoreus, rarius chalcedonyx, in Helvetia (*pago* Baſileenſi,) Wrtembergia (*prope* Boll, Pfullingen & Schwappelau,) Palatinatu rhenano (*prope* Weinheim,) Franconia (*prope* Herbipolin,) Saxonia (*prope* Querfurt,) Halberſtadio (*prope* Regenſtein,) Thuringia (*prope* Jenam,) Haſſia, Hercynia (*in monte* Roſtenberg *prope* Goslariam, *terris reliquis* Brunſvicenſibus (e. gr. *prope* Neuſtadt *ad montem* Rubenberg,) Germaniæ *circulo* Weſtphalico (*prope* Bensberg & Aquisgranum,) Belgio (*prope* Spauven,) Suecia, Boruſſia (*præſertim diſtrictu* Angerburgenſi) & Sileſia.

ſtrombi. 26. H. ſtrombi.

α. digitati.

a. chiragræ.

marmoreus in Hungaria (*prope* Œdenburg.)

Alatites. β. lobati.
marmoreus in Auſtria (*prope* Mannersdorf.)
a. lentiginoſi.
marmoreus in Hungaria (*prope* Œdenburg.)
b. ſiniſtri.
in Helvetia.
γ. ampliati.
a. Luciferi.
δ. turriti.
in Wirtembergia *prope thermas* Bollenſes.

muricis. 27. H. muricis.
α. ſpinoſi.
rariſſimus, marmoreus in Auſtria *ſuperiori prope ſalinas.*
a. triacanthi.
β. frondoſi.
in Tameſia.
a. ſaxatilis.
γ. turriti.
a. fuſcati.
marmoreus in Venetorum *terris prope* Brendolam.
b. granulati.
marmoreus aut arenario farctus in Italia (*prope* Bononiam *in monte* della guardia) & Auſtria (*prope* Viennam.)
c. hexagoni.

Trochi- 28. H. trochi.
lites. α. conici.
rarius fixus, quam vagus, utplurimum marmoreus, interdum arenarius, pyritaceus aut ferrugiroſus in inſulis Feroë, Norwegia, Suecia, Dania, Anglia (e. gr. *prope* Bath,) Campania gallica (*prope* Remos,) Alſatia (*in valle* Jægerthal,) Pedemontio (*prope* Auguſtam Taurinorum,) Helvetia (*prope* Bernam, Bœttſtein, Litgeneu, Fanum D. Galli, *in monte* Randberg,) Wirtembergia (e. gr. *in montibus* Achalm & Hangberg, *prope* Pfullingen, Næhren, Boll) & *reliqua* Suevia (*prope* Biberacum, Ulmam, Giengam,) Bavaria (*prope* Sulzburg,) Auſtria *ſuperiori* (*prope* ſalinas,) Franconia (*prope* Hesſpruck, Norimbergam, Cronach,) Saxonia *ſuperiori* (*prope* Dresdam) & *inferiori* (*prope* Regenſtein, Scheppenſtedt, Hildeſiam, *in* Tilgenwieſe *prope* Goslariam,) *in circulo* Germaniæ weſtphalico (*prope* Gerresheim, Mülheim *ad* Roram, Duſſeldorf, Nothberg, Beusberg & Richterich.)

a. zizy-

a. zizyphini.
in Wirtembergia (*prope* Pfullingam.)
β. convexi.
utplurimum marmoreus, *rarius ſiliceus in* Suevia (*prope* Glengam) & Italia (*in monte* Bononienſi della guardia.)
a. perſpectivi.
in Franconia (*prope* Vierzehenheiligen.)
γ. turriti.
a. taleſcopii.
marmoreus in Venetorum *terris* (*prope* Brendola.)

Turbinites. 29. H. turbinis.
α. ſolidi.
marmoreus, *quartzoſus vel arenarius in* Pedemontio (*prope* Auguſtam Taurinorum,) *circulo* germaniæ weſtphalico (*prope* Call, Keldenig, Bensberg, Paffrath, Nothberg, Burvenich, Mulheim *ad* roram, Poncet, Richterich & Aquisgranum) & Temeſia.
a. littorei!
interdum ſpato farctus aut arbuſcularum imaginibus pictus, *in* Helvetia (*in monte* Randberg,) Suevia (*prope* Biberach & Nœrdlingen) & Auſtria (*prope* Viennam.)
b. cochli.
in Helvetia (*prope* Dieſenhofam.)
c. rugoſi.
in Belgio (*prope* fanum S. Didonis) & Franconia (*prope* Norimbergam.)
d. marmorati.
interdum pyriticoſus in Wirtembergia (*in monte* Achalm, *prope* Thalheim & Boll.)
e. ſarmatici.
f. argyroſtomi.
in Wirtembergia (*prope* Pfullingen.)
β. cancellati.
in chalcedonium converſus in Italia.
a. ſcalaris.
rariſſimus in Helvetiæ (Turicenſium *monte* Hexenberg) & Hetruriæ (*monte* Algino.)
b. ſtriatuli.
marmoreus in Hungaria *prope* Schemniz.
γ. turriti.
utplurimum aggregatus & fixus, *marmoreus*, *pyromachus*, *chalcedonius*, *arenarius*, *pyritaceus*, *interdum ſpato farctus in* Anglia (*e. gr. prope* Hampton & Portland,) Bel-

gio (*prope* Valenciennes.) Gallia (*prope* Merignac Aquitaniæ, Iſſy, Remoulin & Pontamouſſon Occitaniæ, Severne & Buchsweiler Alſatiæ,) Helvetia (e. gr. *in pago* Baſileenſi, *prope fanum* D. Galli, Solodurum Neocomum,) Pedemontio (*prope* Auguſtam Taurinorum & *in valle* d'Andona,) *in* Italia *media* (*prope* Sienam & *in monte* Bouonienſi della guardia) venetorum *terris* (*prope* Brendola & *in monte* Veronenſi Ronca,) Tiroli (*prope* Predaz,) Auſtria (*prope* Prugg *ad fluvium* Leutha, Mannersdorf Ottocrin & Viennam,) Tranſilvania, Sileſia, Bohemia (*prope* Tuchmeriz,) Saxonia (e. gr. *prope* Querfurt,) Thuringia (e. gr. *prope* Wettersleben & Jenam,) Hercynia *prope* Regenſtein & Goslariam,) Hildeſia (*in monte* Spizhutberg.) Hannoveranis *terris* (*prope* Neuſtadt *ad montem* Rubenberg,) *circulo* Germaniæ weſtphalico (*prope* Gerresheim & Aquisgranum & rhenano (*prope* Moguntium, Francofurtum, Alzey,) *in* Haſſia (e. gr. *prope* Leuten & Adolphseck) & Wirtembergia (*in monte* Achalm, *prope* Ehningen, Birſen, Mehringen, Imehauſen & Boll.)

a. imbricati.
in Gallia (*prope* Merignac,) Tiroli (*ad fines* Italiæ) & Bohemia (*prope* Coſors,) *marmoreus aut ſuillus.*

b. replicati.
marmoreus in Gallia (*prope* Merignac.)

c. acutanguli.
in marga Siciliæ (*prope* Palermo.

d. exoleti.
marmoreus in Pedemontio (*prope* Auguſtam Taurinorum.)

e. terebræ.
marmoreus in Bavaria.

f. variegati.
marmoreus in Hercynia (*prope* Blankenburg.)

Helicis. 30. H. helicis.

α. complanatæ.
vagus aut fixus ſolitarius aut gregarius aut mixtus, marmoreus, pyromachus, arenarius aut pyritaceus, in Anglia, Belgio (*prope* Louanium,) Alſatia (*prope* Gundershofen & Buchsweiler,) Helvetia, Pedemontio (*prope* Auguſtam Taurinorum,) Hungaria, Stiria (*prope* Tieſar,) Suevia (*prope* Giengam & Reutlingam) & *præſertim* Wirtembergia (*prope* Pfullingen, Echterdingen, Boll & *in monte* Hangberg,) *prope* Francofurtum *ad* Moenum, *in* Haſſia, Thuringia (*prope* Jenam) & ducatu montano (*prope* Paffrath & Bensberg.)

β. rotundatæ.

in Venetorum *terris* (*prope* Veronam,) Pedemontio (*e. gr. prope* Auguſtam Taurinorum,) Helvetia (*prope* Scaphuſium) & Germaniæ *circulo* Weſtphalico (*prope* Sœtenich, Keldenig, Richterich, Nothberg, Paffrath, Bensberg & Gerresheim.)

γ. ovato-acuminatæ.

utplurimum marmoreus, interdum arenarius aut pyriticoſus in Anglia, Gallia (*prope* Iſſy,) Helvetia (e. gr. *in monte* Randberg,) Wirtembergia (*prope* Næhren, Mehringen, Pfullingen, Echterdingen, Boll & Kirchoteccam) & *reliqua* Suevia (*prope* Ulmam, Giengam & Nordlingam,) Auſtria *ſuperiori* (*prope* ſalinas,) Bohemia (*prope* Worzech, Dúchomierziz & S. Johann,) Saxonia *ſuperiori* (*prope* Farenſtedt) & *inferiori* (*prope* Quedlinburg & *in Ducatu* Brunsvicenſi, *circulo* Germaniæ Weſtphalico (*prope* Gerresheim) & rhenano (*prope* Francofurtum & *in* Haſſia.)

a. Pomatiæ.

in Carniolia (*prope* Crapt.)

Neritites. 31. H. neritæ.

utplurimum marmoreus in Pedemontio (*prope* Auguſtam Taurinorum,) Helvetia (*in valle* Hemmerthal & *prope* Scaphuſium,) Carinthia, Auſtria (*prope* Prugg *ad fluvium* Leutha & Vaiing,) *ducatu* Megalopolitano (*prope* Sternberg) & Brunsvicenſi, Germaniæ *circulo* weſtphalico (*prope* Bleybur, Keldenig, Nothberg, Paffrath & Bensberg.)

a. perverſi.

Auricularis. 32. H. haliótidis.

rarus utplurimum typolithus, in Temeſia, *Ducatu* Montano (*prope* Duſſeldorf) & Belgio (*prope* Trajectum *ad* Molam.)

α. perverſæ.

β. plicatæ.

prope Hildeſiam.

Patellaria. 33. H. patellæ.

frequentius typolithus, in Anglia, *Ducatu* Brunsvicenſi, Helvetia (e. gr. *prope* Botning & Prattelen,) Italia *præſertim* Pedemontii *montibus* & Temeſia.

α. ſaccharinæ.

β. *Syſt. nat.* XII. 3. *p.* 163. *n.* 3. Helmintholithus (Conchedium) patellæ bilocularis.

Muſ. Teſſin. 90. *t.* 5. *f.* 8. Conchidium.
in Sueciæ Œlandia, Gothlandia *frequens.*

Dentalites. 34. H. dentalii.
marmoreus, jaſpideus aut chalcedonius in Temeſia, Italia *media* (*prope* Sienam & *in monte* Ciea & Bononienſi della guardia,) Venetorum *terris* (*montibus* Veronenſibus, Pedemontio, Helvetia (e. gr. *pago* Bernenſi,) Wirtembergia (*prope* Tubingam & Blabyam,) Franconia (*prope* Rotenburgum,) Bohemia (*prope* Pragam,) Sileſia, Marchia Brandenburgica (e. gr. *prope* Francofurtum, Fœſenek,) Saxonia (*prope* Querſurt,) Magdeburgo (*prope* Halam,) Thuringia, *prope* Lubeccam, *in ducatu* Juliaco (*prope* Burvenich) & *in* Belgio (*in monte* S. Petri *prope* Trajectum *ad* Moſam.)

α. radulæ.
β. interrupti.
γ. vitrei.
omnium in Pedemontio.
δ. ſexanguli.
in Italia *prope* Loretto.

Tubulites. 35. H. ſerpulæ.
α. rectiuſculæ.
in Temeſia, Suevia (*prope* Elwangam) & Belgio (*prope* Trajectum *ad* Moſam & Maisbrœk.)
a. polythalamiæ.
b. penis.

Vermiculites. β. flexuoſæ vel contortæ.
marmoreus aut arenarius, rarius ferrugineus aliis crebro larvatis teſtaceorum inſidens, in Melita, Venetorum *terris* (*prope* Veronam,) Pedemontio (*prope* Annone,) Helvetia (e. gr. *in valle* Hemmerthal, *monte* Randberg, *pago* & *epiſcopatu* Baſileenſi *prope* Muttenz & *ad fluvium* Birſa,) Wirtembergia (*prope* Tuttlingen, Bahlingen, Ebhauſen, Nebeiloch, Blabyrak) & *reliqua* Suevia (*prope* Memmingam & Papenheim,) Franconia (*prope* Solenhofen,) Hildeſia (*in monte* Galberg,) *ducatu* montano (*in monte* rubro) & Belgio (*prope* Trajectum *ad* Moſam.)
a. ſpirilli.
in Wirtembergia (*alpibus, quos vocant*) & Anglia (*inſula* Schepey.)
b. filogranæ.
rarus in Magdeburgo (*prope* Halam,) *niſi mere calcinatus*

c. glomeratæ.
in Sileſia, Suevia (*prope* Memmingam) & Helvetia.
d. lumbricalis.
in Venetorum *terris vicentinis* (*prope* Grancona.)
e. arenariæ.
f. anguinæ.
in Franconia (*prope* Norimbergam.)
g. melitenſis.
in Melita.

teredinis. 36. H. teredinis.
in Pedemontii *collibus* (*prope* Annone) & Angliæ *inſulæ* Scheppey, *in ligno ſubterraneo.*

ſubellæ. 37. H. ſubellæ.
paſſim inter typolithos.

γ. zoophytorum.

Tubiporites. 38. H. tubiporæ.
Syſt. nat. I. *p.* 1270. XII. 3. p. 167. *n.* 13. Helmintholithus (Tubiporus) Tubiporæ (deperditæ.)
in Suecia, *potiſſimum* Gothlandia, Belgio (*prope* Trajectum *ad* Moſam,) Eifalia (*prope* Berndorf & Rohr,) Franconia (*in terra* Coburgenſi) & Sileſia.
α. muſicæ.
tophaceus, marmoreus, quartzoſus vel arenarius, in Gothlandia, Anglia, Belgio (*prope* Trajectum *ad* Moſam) & Germaniæ *circulo* weſtphalico (*prope* Dottelen, Berndorf, Nothberg, Wingersheid & Paffrath.)
β. catenulariæ. S. N. 3.
in Gothlandia *marmoreus*, *in* Marchia Brandenburgica (*prope* Ruppin, Arendſen, Freyenwalde, Arneburg & Havelberg.)
γ. ſerpentis. S. N. 2.
δ. faſcicularis. S. N. 4.
ε. ſtellatæ.
ζ. ſtruis.
in Boruſſia.

Madreporites. 39. H. madreporæ.
Syſt. nat. I. *p.* 1272. XII. 3. *p.* 167. *n.* 14. Helmintholithus (Madreporus) Madreporæ (deperditæ.)
in Gothlandia, Belgio (*prope* Trajectum *ad* Moſam,) Eifalia, Venetorum *terris* (vicentinis *prope* Brendola,) Pedemontii (*ubivis margaceis*) & Temeſia.

α. verrucatiæ.
marmoreus in Venetorum *monte* Vicentino Berico.

β. turbinatæ. S. N. 6.
marmoreus in Gothlandia, Anglia (*provincia* Derby,) Gallia (*prope* Avenionem,) Helvetia (e. gr. *in monte* Randberg, & *prope* Pfeſſingen *pagi* Baſileenſis,) Iſtria (*prope* Tergeſtum,) Auſtria (*prope ſalinas*,) Suevia (*prope* Giengen) & Wirtembergia *præſertim* (*prope* Blabyram,) *ducatu* montano (*prope* Bensberg) & Belgio (*prope* Trajectum *ad* Moſam.)

γ. Porpitæ. *Syſt. nat. 7. Muſ. Teſſin. 96. n. 14.*
utplurimum vagus, marmoreus, jaſpideus aut pyromachus, in Helvetia (e. gr. *prope* Ormelingen *pagi* Baſileenſis,) Hungaria (*prope* Schemniz,) Auſtria *ſuperiori* (*prope ſalinas*) Saxonia (*prope* Dresdam,) *ducatu* Megalopolitano (*prope* Gnoyen,) *terris* Brunsvicenſibus (*prope* Scheppenſtedt, Ludersdorf, Hittfeld) & Germaniæ *circulo* weſtphalico (*prope* Lohberg.)

δ. Fungitæ.
in Gothlandia, Belgio (*prope* Trajectum *ad* Moſam, *ducatu* montano (*prope* Paſtrath,) Hercynia (*prope* Blankenburg, Lohdebleck & Goslar,) Auſtria *ſuperiori* (*prope ſalinas*,) Tiroli, Suevia (*prope* Memmingam & Giengam) & *præſertim in* Wirtembergia (e. gr. *prope* Blabyram & Nebelloch) & Helvetia (e. gr. *in monte* Randberg, *prope* Hobel Solodurii, *ad fluvium* Birſam; (*prope* Pfeſſingen & Nushof *pagi* & *epiſcopatus* Baſileenſis,) *utplurimum marmoreus*, *rarius ardeſia.*

ε. pilei.
marmoreus, rarius quartzoſus, *in* Gothlandia, Hercynia (*prope* Lohdebleck,) Bohemia (*prope* Duſchcowiz,) Wirtembergia (e. gr. *in* alpibus, *quos vocant*) & Helvetia (e. gr. *in monte* Randberg.)

ζ. agaricitæ.
in Belgio (*prope* Trajectum *ad* Moſam.)

η. labyrinthicæ.
calcarius in Gothlandia, Belgio (*prope* Trajectum *ad* Moſam) & Auſtria *ſuperiori* (*prope ſalinas.*)

θ. mæandritæ.
utplurimum marmoreus in Occitania, Helvetia (*prope* Pfeſſingen *pagi* Baſileenſis) & Eifalia (*prope* Weier.)

ι. Areolæ.

κ. favoſæ.

marmoreus in Helvetia, Auſtria *ſuperiori* (*prope ſalinas,*) Wirtembergia (*in alpibus, quos vocant*, e. gr. *prope* Blabyram) & Germaniæ *circulo* weſtphalico (*prope* Call, Keldenig, Paffrath & Bensberg.)

λ. Ananas. *Syſt. nat.* 15.
marmoreus in Gothlandia & Gorizii *montibus.*

μ. polygamæ.
marmoreus in Auſtria *ſuperiori* (*prope ſalinas.*)

ν. arenoſæ.
marmoreus in Auſtria *ſuperiori* (*prope ſalinas.*)

ξ. folioſæ.
in Belgio (*prope* Trajectum *ad* Moſam.)

ο. aſtroitæ.
marmoreus, rarius chalcedonius, arenarius aut ferruginoſus, in Anglia (*prope* Hedington & Wittney,) Belgio (*in monte* S. Petri *prope* Trajectum *ad* Moſam,) *in* Eifalia (*prope* Scœtenich & Keldenig,) *ducatu* montano (*prope* Paffrath,) Haſſia (e. gr. *prope* Viliinghauſen,) Hercynia (*in monte* Schulenberg,) Saxonia, Auſtria *ſuperiori* (*prope ſalinas,*) Wirtembergia (*prope* Echterdingen & *in alpibus, quos vocant*, e. gr. *prope* Blabyram & Nebelloch,) Helvetiam (e. gr. *prope* Pfeffingen & *ad fluvium* Birſa *pagi* & *epiſcopatus* Baſileenſis) & *in* Sardinia.

π. calicularis.
in Eifaliæ *monte* Danzberg *prope* Keldenig.

ρ. truncatæ. S. N. 24.
marmoreus in Suevia (*prope* Giengam,) Auſtria *ſuperior* (*prope ſalinas*) & Gorizii *montibus.*

σ. ſtellaris. S. N. 25.
marmoreus in Eifalia (*prope* Herkeſtein.)

τ. organi. S. N. 26.

υ. muſicalis.
ſaliceus aut marmoreus in Campania gallica (*prope* Mezieres,) Belgio (*prope* Trajectum *ad* Moſam,) Bohemia (*prope* Coſorz) & Gorizii *montibus.*

φ. divergentis.
in Ægypto.

χ. ceſpitoſæ.
marmoreus aut ſiliceus, in Helvetiæ *pago* (*prope* Pfeffingen) & *epiſcopatu* Baſileenſi, Wirtembergia (*prope* Heidenheim,) Auſtria *ſuperiori* (*prope ſalinas*) & Angliæ *fodina* Derbyenſi (Plato *prope* Winſter.)

ψ. flexuoſæ. S. N. 29.
in Angliæ *fodina* Plato.

α. faſcicularis.
in inſula Americæ *obverſa* Caracao.
αα. pectinatæ.
in Sileſia *epiſcopatu* Baſileenſi, Burgundia *ſuperiori* (*prope* Veſuntium.)
ββ. tubularis.
γγ. mammillaris.
in Belgio (*prope* Trajectum *ad* Moſam) & Burgundia *ſuperiori* (*prope* Veſuntium.)
δδ. patelloidis.
εε. globularis.
ζζ. fili.
in Helvetia (*prope* Baſileam.)
ηη. vermicularis.
in Sileſia, Helvetia.
θθ. arachnoideæ.
in Belgio (*prope* Trajectum *ad* Moſam,) Wirtembergia (*prope* Biabyram) & Auſtria *ſuperiori* (*prope ſalinas*) *marmoreus.*
ιι. undulatæ.
κκ. monilis.
in Arabia (*prope* Djidda.)
λλ. poritæ.
in Suecia,) Sileſia, *ducatu* montano (*prope* Paffrath,) Eifalia (*prope* Keldeuig) & Campania *gallica* (*prope* Mezieres.)
μμ. damicornis.
marmoreus in Carniolia (*prope* Cormons) & Auſtria *ſuperiori* (*prope ſalinas.*)
νν. muricatæ.
marmoreus in Gothlandia & Sileſia.
ξξ. faſtigiatæ.
marmoreus in Sileſia & Auſtria *ſuperiori* (*prope ſalinas.*)
οο. rameæ.
ſiliceus aut marmoreus in Wirtembergia (*alpibus*, *quos vocant*) & *reliqua* Suevia (*prope* Giengam,) *in ducatus* montani *lapidicinis.*
ππ. oculatæ.
in Gothlandia.
ρρ. cacti
σσ. concatenatæ.

Millepo-rites. 40. H. milleporæ.
in Temeſia, Italia, Helvetia (*in monte* Randberg)

α. alcicornis.

marmoreus in Belgio (*prope* Trajectum *ad* Moſam,) Germaniæ *circulo* weſtphalico (*prope* Herkelſtein, Dollendorf, Berndorf, Paffrath, Bensberg & Kebinghauſen,) Suevia (*prope* Giengen) & Gorizii *montibus*.

β. aſperæ.

in Germaniæ *circulo* Weſtphalico (*prope* Birbach & Bensberg.)

γ. ſolidæ.

in Sueciæ Gothlandia, Wirtembergia (*prope* Heidenheim) & Carniolia (*prope* Cormons.)

δ. pumilæ.

ε. reticulatæ.

in ducatu montano (*prope* Kebinghauſen.)

ζ. cellulosæ.

η. ſpongitæ.

Syſt. nat. XII. 3. *p.* 167. Helmintholithus ramoſus angulatus imbricatus poroſus.

Muſ. Teſſin. 128. *n.* 3. *t.* 11. *f.* 2. * Coralinum ramoſum ramis angulatis imbricatis paſſim coadunatis.

ϑ. coriaceæ.

in Gothlandia, Eifalia (*prope* Heiſtert,) Hildeſia, Sileſia, Helvetia (e. gr. *pago* Baſileenſi.)

ι. polymorphæ.

in Sileſia & Helvetia.

κ. ignotæ.

Syſt. nat. XII. 3. *p.* 167. *n.* 15. Helmintholithus milleporæ orbicularis punctatus.

Cellepo-rites. 41. H. celleporæ.

α. ſpongitæ.

β. pumicoſæ.

γ. verrucoſæ.

marmoreus aut arenarius in Gothlandia, *ducatu* montano (*prope* Bensberg) & *principatu* Halberſtadienſi.

iſidis. 42. H. iſidis.

α. hippuridis.

articuli ſolitarii in Anglia, Helvetia (*prope* Scaphuſium,) & Sicilia (*prope* Meſſanam.)

β. entrochæ.

Syſt. nat. I. *p.* 1288. *n.* 4. XII. 3. *p.* 168. *n.* 17. Helmintholithus (Entrochites) iſidis entrochæ.

Schreb. lithol. p. 51. Petrificata animalia articulorum compoſitorum.

Muſ. Teſſin. 96. *n.* 15. Helmintholithus reptilis.

Harenb. encrin. t. 1. *f.* 8-10. Aſteria columnaris articulis crenatis.

Woltersd. miner. 37. Caput meduſæ articulis utrinque figura ſolari, radiis denſioribus excurrentibus.

Volkm. ſileſ. 1. *t.* 27. *f.* 9. 10. Entrochus.

articulis ſolitariis disjunctis aut pluribus adhuc in columnam coadunatis, ut plurimum marmoreis, rarius ſiliceis aut arenariis in Sueciæ Gothlandia, Anglia, (e. gr. *prope* Monegush *comitatus* Derbyenſis,) Hiſpania, Gallia, *præſertim* Lotharingia, Belgio (*prope* Viſet & Olhe,) Germaniæ *circulo* weſtphalico (*prope* Dotrelen, Keldenig, Call, Sœtenich, Dahlbender, Zinsheim, Burvenich, Bleybur, Glehn, Heldenkopf, Schwerfel, Ruhr, Heiſtert, Dollendorf, Duſſeldorf, Mühlheim, Flingeren, Gerresheim, Hockerswagen, Lindlar, Wipperfurth, Bensberg, Iversheim, Munſter, Heiligenhoven, Reutchenberg, Schlenderhan, Froczheim, Almerode, Vlatten, Steinbach, Altkirchen, Cürten, Grimmlinghauſen & Voltmeſſen,) *electoratu* Trevirenſi (*prope* Liſſingen,) Haſſia (*prope* Spangenberg & Mundelshauſen,) Hudela (*in* Kuhle & *in montibus* Rozberg & Oſterberg,) *prope* Lubeccam, *in principatu* Gœttingenſi (*prope* Azenhauſen & *in monte* Heimberg,) *in* Hercynia (*prope* Goslar & Blankenburg,) *in* Thuringia (e. gr. *in monte* Vinarienſi Ettersberg *prope* Schrappelau, *inter* Tobau & Himmelsberg,) *in* Saxonia (e. gr. *prope* Halam, Querfurth, Sachſenburg,) Marchia Brandenburgica (*prope* Arneburg, Havelberg, Francofurtum, Boruſſia (*prope* Gedanum & Angerburg,) Sileſia (e. gr. *prope* Matlet, Bohemia (*prope* Pragam & Colors,) Franconia (e. gr. *in principatu* Coburgenſi,) Auſtria *ſuperiori* (*prope ſalinas*) & *anteriori* (*prope* Eutingen,) Suevia (*prope* Halam) & Wirtembergia *præcipue* (*prope* Nebelloch, Kirchoteccam, Echterdingam, Boll, Heidenheim,) Helvetia (*in montibus* Randberg & Legerberg & *ad fluvium* Birſam) & Venetorum *terris* (*in montes* Scoglia della Limpia *prope* Reccaro.)

a. lævis.

a. margine vix inciſo.

b. margine undulatim repando.

Syſt. nat. XII. 3. *p.* 167. *n.* 16. Helmintholithus (ſaturatus) iſidis geniculis repandis.

Wolf. haſſ. t. 4. *f.* 1. 6. *Geſn. fig.* 89. b.

b. verrucoſus.

c.? caculeatus.

d. punctatus.
e. transverſim ſtratus.
f. articulis elevatis.
g. dichotome ramoſus.
γ. aſteriæ.
a. angulis obtuſioribus.
Syſt. nat. I. *p.* 1288. *n.* 5. XII. 3. *p.* 168. *n.* 18. Helmintholithus (Aſteria columnaris) Iſidis aſteriæ.
Wolterſd. miner. 37. Caput meduſæ articulis utrinque ſtella pentaphyllea.
Scheuchz. helv. 10. *f.* 3. *Lang fig.* 67. *t.* 19. *f.* 2. Modiolus ſtellatus.
Roſin. ſtell. 37. *t.* 5. Aſteria pentagona pentaphyllea.
Ritter calenb. f. 4. a. *f.* 4. c. *Annon. baſil.* 2. *t.* 2. *f.* e. *Scheucz. helv.* 6. *p.* 323. *f.* 152. *Geſn. fig.* 37. Aſteria columna angulis acutis ſ. obtuſis.
Volkm ſileſ. 1. *t.* 27. *f.* 22. *J. Bauh. bollenſ. t.* 31. Stella marina.
Wagn. judaic. 11. *f.* 26. Lapis judaicus pentagonus angulis obtuſis.
b. angulis acutis.
Syſt. nat. XII. 3. *p.* 169. *n.* 19. Helmintholithus (Stella columnaris) iſidis ſtellularis.
Wagn. judaic. 11. *f.* 27. Lapis judaicus pentagonus angulis acutis.
c. orbiculares.
d. altero fine orbiculares, altero angulatæ.
frequentiſſimus gregarius, *cum priori* (β), *utplurimum marmoreus vagus aut fixus*, *interdum ſiliceus aut pyritaceus*, *fixus*, *articulis ſolitariis aut in columnam*, *rarius incurvam vel ramoſam coadunatis*; *læves aut verrucoſæ*, *raro tri - aut hexagonæ*, *rariſſime tetragonæ in* Helvetia (*prope* Solodurium & *in monte* Randberg,) Wirtembergia (*in montibus* Hangberg & Achalm, *prope* Bezingen, Mæhringen, Næhren, Oſterdingen, Omchauſen, Bebenhauſen, Echterdingen, Boll,) Auſtria *ſuperiori* (*prope ſalinas præſertim ad* Rimpach,) Franconia (e. gr. *prope* Oberfuſbach *ditionis* Coburgenſis,) Saxonia (*prope* Chemnitium,) Hercynia (*prope* Harzburg,) *ducatu* montano (*prope* Bensberg,) Eifalia (*prope* Iversheim,) Gallia (*prope* Deppam) & Anglia.
δ. epitonium.
Syſt. nat. XII. 3. *p.* 170. *n.* 24. Helmintholithus diſſepimentis orbiculatis diſtantibus filo centrali connexis.

Hamburg. Magaz. 9. *p.* 73. & 14. *p.* 94. *Vogel mineralſ.* 236. *Baum. miner.* 2. *p.* 205.

in Hercynia (*prope* Rubeland, Zorge, Huttenrode, Blankenburgi,) Hildeſiæ *diſtrictu* Steuerwald,) Germaniæ *circulo* weſtphalico (*prope* Dahlbenden, Vlatten, Keldenig) & *in* Anglia (*prope* Briſtol & *in comitatu* Derbyenſi,) *intra marmor vel quarzum ferri calce largiter perfuſum aut pyromachum.*

ε. caryophyllites.

Syſt. nat. XII. 3. *p.* 169. *n.* 22. Helmintholithus iſidis, turbinatus, limbo pentagono quinquedentalo.

Muſ. Teſſin. 96. *t.* 4. *f.* 2. Carpolithus caryophyllitus.

Vogel mineralſ. 234. Caryophyllus lapideus.

vagus, variæ magnitudinis, nonnunquam petiolatus, in Helvetia (e. gr. *in monte* Randberg) & Eifalia (*prope* Schwerfel.)

gorgoniæ. 43. H. gorgoniæ.

ω. ramoſæ.

marmoreus in principatu Neocomenſi.

a. nobilis.

in Helvetia & *ſuperiore* Italia (*prope* Veronam.)

β. reticulatæ.

margaceus aut ſuillus, interdum typolithus, in Saxonia (*prope* Dresdam,) Bohemia (*prope* Coſors,) & Gallicia (*prope* Wieliczka.)

alcyonii. 44. H. alcyonii.

α. arborei.

in Anglia, Gallicia (*prope* Wieliczka & Bochnia) & Auſtria *ſuperiori* (*prope ſalinas.*)

β. exoſſis.

calcarius, totalis aut partialis in Belgio (*prope* Trajectum *ad* Moſam,) Germaniæ *circulo* weſtphalico (*prope* Cornelimunſter) & Helvetiæ *pago* Baſileenſi (*prope* Pfeffingen.)

γ. epipetri.

marmoreus in Helvetia (*in monte* Randberg) & *prope* Pfeffingen *pagi* Baſileenſis.)

δ. digitati.

in Helvetiæ *pago* Solodurano (*prope* Dornach) & Baſileenſi (*ad fluvium* Birſam & *prope* Pfeffingen,) *marmoreus.*

ε. asbeſtini.

ζ. lyncurii.
in Helvetiæ *monte* Randberg.

μ. burſæ.
in Helvetiæ *pago* Baſileenſi (*prope* Pfeſſingen.)

ϑ. cydonii.
in Helvetiæ *pago* Baſileenſi (*prope* Pfeſſingen.)

ι. ficus.
in Belgio (*prope* Trajectum *ad* Moſam.)

κ. gelatinoſi.
in Germaniæ *circulo* weſtphalico (*prope* Cornelimünſter.)

ſpongiæ. 45. H. ſpongiæ.

α. crateriformis.
in ducatu montano (*prope* Paffrath.)

β. typhæ.
in Franconia.

Eſchari-tes. 46. H. fluſtræ.
arenarius aut calcarius in Belgio (*prope* Trajectum *ad* Moſam,) Haſſia (*prope* Bibra,) Franconia (*prope* Gluksbrunn) & Helvetia (*prope* Nushof & *in monte* Randberg.)

α. *utrinque poroſæ.*

a. foliaceæ.
b. truncatæ.
} *in terra* Pœſenek & Haſſia (*prope* Bibra.

c. piloſæ.
in Belgio (*in monte* S. Petri *prope* Trajectum *ad* Moſam ,) Eifalia (*prope* Dollendorf) & *ducatu* montano (*in lapidicina*) *marmoreus.*

d. lutoſæ.
in Helvetiæ *pago* Baſileenſi.

β. *alterutro tantum latere poroſæ.*
marmoreus in Gothlandia.

tubula-riæ. 47. H. tubulariæ.
in Gothlandia, Halberſtadio & Helvetiæ *pago* Baſileenſi (*prope* Muttenz,) *marmoreus aut arenarius.*

α. indiviſæ.

coralli-næ. 48. H. corallinæ.
marmoreus typolithus in Bohemia (*prope* Koſors) & Venetorum *terris* Vicentinis (*prope* Brendola.)

α. corniculatæ.

β. barbatæ.

ſertula-riæ. 49. H. ſertulariæ.
typolithus e. gr. *in montibus* Galliæ Sevennis & Belgio (*prope* Trajectum *ad* Moſam.)

pennatulæ. 50. H. pennatulæ.

α. phoſphoreæ.

typolithus in Belgio (*prope* Trajectum *ad* Moſam,) *principatu* Waldeccenſi & Veronenſium *monte* Baldo.

β. encrini.

a. expanſi.

Syſt. nat. XII. 3. *p.* 169. *n.* 20. Helmintholithus (portentoſus) iſidis filiformis ramoſæ apicibus faſciculatis.

Geſn. petrif. 32. *n.* 5. Zoophytolithus ſtellæ compoſitæ radiis ſecundariis ex eodem trunco numeroſis.

Hiemer cap. meduſ. Stutg. 1724. 4. *t.* 1. *A2. Lipſ.* 1725. *p.* 376. c. *fig.* Caput meduſæ.

pyriticoſus aut ſuillus, rarius pyromachus, interdum typolithus margaceus in Wirtembergia (*prope* Boll,) *comitatu* Pappenheimenſi, Bohemia (*prope* Wiſcherad & Coſors,) Saxonia *inferiori* (*prope* Goslariam & Guelpherbytum,) & *ducatu* Juliacenſi (*prope* Schaumburg & Zweybruggen.)

b. contracti.

Syſt. nat. XII. 3. *p.* 169. *n.* 21. Helmintholithus (Encrinus) iſidis faſciculo conferto.

Gronov. ſuppl. 18. *n.* 10. Helmintholithus meduſæ ramoſiſſimus, ramis parallelis angulatis, articulis multifidis.

Davil. warioſ. 3. *t.* 1. Encrinites.

Harenb. encrin. 1229. *t.* 1. *f.* 1. 3. 4. 7. *Ritter gosl. t.* 1. *f.* 1. Encrinus ſ. Lilium lapideum.

Geſn. petrif. 31. *n.* 4. Zoophytolithus ſtellæ compoſitæ radiis ſecundariis decem.

Wolterds. miner. 37. Encrinus.

Scheuchz. lith. 1. *f.* 4. Aſteria columnaris entrocho ſimilis arcuata.

marmoreus, totalis aut partialis in Lotharingia & *ſuperiori* Burgundia, Helvetia (e. gr. *prope* Schinznach & *ad fluvium* Birſa *pagi* Baſileenſis,) Saxonia (*prope* Querfurt,) Thuringia (*prope* Longoſaliſſam & Vinariam) Saxonia *inferiori* (*prope* Goslariam, Aſſe, *diſtrictu* Calenbergico, Gandersheim, Lucklum & Erkerode, Hildeſiæ *monte* Oſterberg) & *in circulo* weſtphalico (*prope* Swertel.)

102. PHYTOLITHUS. Plantam ejuſve partem referens.

totalis. 1. Ph. plantæ. *Syſt. nat.* 202. *n.* 1.
Waller. miner. 334. Petrificata vegetabilia plantarum.
Carth. miner. 97. Typolithus vegetabilis.
Scheuchzer J. J. Herbarium diluvianum. Tigur. 1709. & *Lugdb.* 1723. *fol.*
Schulze C. F. Kraeuterabdrücke im Steinreiche. Dresden. 1755. 4.
Gron. ſuppl. 17. *n.* 1. *ſqq.*
Typolithus in marga ſchiſtoſa præſertim bituminoſa ſuilloque ſchiſtoſo lithanthracis ſtrata obtegentibus frequentior, in argilla quoque & arenaria obvius, e. gr. *in* Angliæ *provinciis* Derby & Glocester, *in* Galliæ Lugdunenſi. (*prope* Chaumont) & Forez (*prope* Micareine,) *in montibus quoque* Cevennis (*potiſſimum prope* Taleriſulo) & Lotharingia (*prope* Lach,) *in ducatu* Bipontino (*prope* Oberhauſen,) Magdeburgico (*prope* Wettin,) Thuringia (*prope* Islebam) & Saxoniæ *fodinis carbonariis* (e. gr. *prope* Dresdam & Zwickaviam,) Franconia (*prope* Ilmenau.) Sileſia (e. gr. *prope* Mannsbach,) Auſtria *ſuperiori* (*prope* Schlimbach,) *epiſcopatu* Conſtantienſi (*prope* Œningen,) Helvetia (e. gr. *in pago* Abbatiſcellano, Glaronenſi, *in monte* Legerberg, *prope* Agis & Caſtelen *pagi* Bernenſis, *in* Venetorum *monte* Baldo.

α. hippuridis.
in Sileſiæ (*prope* Mannebach.) Magdeburgi (*prope* Halam) *circuli* Germaniæ weſtphalici (*prope* Wurſelon) *fodinis carbonariis.*

β. charæ.

γ. ſalviæ.

δ. iridis.
in Occitania (*prope* Alais.)

ε. graminum.
in ſuillo argillaque ſchiſtoſis, lithanthracum ſtratis ſuperinductis, interdum in topho, rarius in pyromacho in Helvetia, Bohemia (*prope* Joachimsthal,) Sileſia (*prope* Scarſchin,) Thuringia (*prope* Longoſaliſſam) & Germaniæ *circulo* weſtphalico (*prope* Muhlheim *ad* Ruram.)

a. alopecuri.

b. tritici repentis.

ζ. ſtellarum e. gr. gulii, aſperulæ.

in fodinis carbonariis e. gr. Angliæ, Occitaniæ (*prope* Alais) *aliisque* Galliæ (v. gr. S. Imbert *comitatus* Lar,) Weſtphaliæ (*prope* Eigelshoven & Eſchweiler,) Saxoniæ Sileſiæ (*prope* Læſſig.)

η. buxi.

in ſuillo ſchiſtoſo & ardeſia bituminoſa circuli Germaniæ weſtphalici e. gr. Kettwig, Eſchweiler, Muhlheim *ad* Roram, Richterich, Morsbach & Scherberg.

ϑ. myoſotidis ſcorpioidis.

ι. pulmonariæ.

in Galliæ *fodinis* carbonariis (*prope* S. Imbert.)

κ. athamantæ.

in Germaniæ *circulo* weſtphalico (*prope* Eſchweiler & Morsbach) & Sileſia.

λ. laſerpitii.

in Angliæ *provincia* Shrop (*prope* Colebroekdale.)

μ. chærophylli.

in Sileſia & Germaniæ *circulo* weſtphalico.

ν. fœniculi.

in Auſtria *ſuperiori* (*prope* Schlimbach) & Germaniæ *circulo* weſtphalico (*prope* Adamsmuhl.)

ξ. herniariæ.

ο. ericæ.

in Gallia (*prope* Firmini, Chambon & St. Genet-Lerpt.

π. myricphylli.

in Anglia & Sileſia (*prope* Mannebach.)

ρ. euphorbiæ.

in Sileſiæ & *circuli* Germaniæ Weſtphalici *argilla*.

σ. cacti.

in Angliæ, *montium* Cevennenſium, *circuli* Germaniæ weſtphalici (*prope* Würſelen, Eſchweiler & Badenberg) & Sileſiæ (*prope* Liebersdorf & Rudolphsdorf) *fodinis carbonariis*.

ς. ceratophylli.

in Anglia, Thuringia (*prope* Islebiam) & Sileſia (*prope* Mannebach.)

υ. nigellæ.

in Sileſia.

φ. anemones, *præſertim* ſilveſtris & hepaticæ.

in Galliæ *fodinis carbonariis* (*prope* S. Imbert.)

χ. geranii.

in Occitania (*prope* Alais.)

ψ. pinus.

ψ. pinus.

in Helvetia & Germaniæ *circulo* weſtphalico (*prope* Eſſenium & Muhlheim *ad* Rorum.)

ω. zoſteræ.

in Temeſiæ *marga*, *in* Gallia (*prope* Firmini, Chambon & St. Genet-Lerpt.)

αα. fumariæ.

in Germaniæ *circuli* weſtphalici (*prope* Eſchweiler) *argilla ſchiſtoſa*.

ββ. viciæ.

in Germaniæ *circuli* weſtphalici *fodinis carbonariis* (*prope* Eſchweiler & Morsbach.)

γγ. ornithopodii.

in Venetorum *montibus* Veronenſibus.

δδ. galegæ.

in Venetorum *montibus* Veronenſibus.

εε. ſyngeneſiarum, (e. gr. inulæ, aſteris, Chryſanthemi, centaureæ, *præſertim* cyani.

in Sileſia (*prope* Læſſig,) Hercynia (*prope* Ilefeld,) & Occitania (*prope* Alais.)

ζζ. equiſeti.

in Germaniæ *circulo* weſtphalico (*prope* Bedenberg, Saxonico *inferiori* (*prope* Koenihsluter, Halam & Wettin,) & *ſuperiori* (*prope* Sangerhauſen & Dresdam,) & franconico (*prope* Ilmenau) *in* Sileſia (*prope* Maunebach) & Anglia.

ηη. filicum.

Syſt. nat. I. *p.* 202. *n.* 2. XII. 3. *p.* 171. *n.* 2. Phytolithus filicis.

Juſſieu act. Pariſ. 1718. Herbæ capillares petrificatæ.

Volkm ſileſ. I. *t.* I. *f.* 23. *t.* 12. *f.* 1-5. & *t.* 13. *f.* 1-16.

Mylii ſaxon. I. *p.* 19. *f.* I. 2. 6. 10. 11. & *t.* 26. *f.* 2-8. Filix petrefacta.

in marga ſchiſtoſa & bituminoſa, ſuilloque ſchiſtoſo lithanthracum ſtrata obtegentibus, interdum in argilla, ardeſia, aut arenario in Anglia (*præſertim provinciis* Northumbria, Cumberlandia, Wallia *ſeptentrionali* & Gloceſtria,) Gallia (e. gr. *prope* Firmini, Chambon & S. Ginet-Lerpt, *montibus* Cevennis, Occitania *prope* Alais *provincia* Forez *ad fluvium* Furens, & Lugdunenſi *prope* S. Chaumont,) Helvetia, Italia (*prope* Bononiam & *in montibus* Veronenſibus,) *in* Sileſia (e. gr. *prope* Conradswalde, Altwaſſer & Mannebach.) Bohemia (*in montibus* gigantels, *prope* Coſors & Joachimsthal,) Saxonia (e. gr. *prope* Pe-

ſterwiz, Zaukerode, Dresdam,) Thuringia (*prope* Bottendorf,) Magdeburgo (*prope* Wettin,) Hercynia (*prope* Ilefeld,) Germaniæ *circulo* Weſtphalico (*prope* Eſſen, Badenberg, Richterich, Morsbach & Eſchweiler,) & Naſſovia (*prope* Saripontum.)

a. oſmundarum.
in circuli weſtphalici *fodinis carbonariis* (*prope* Rothberg, Durwis, Wallemſtein, Badenberg, Eſſen & Mosbach.)
a. regiæ.
in Gallia & Saxonia (*prope* Zwickau.)
b. ſtruthiopteridis.
in Magdeburgo (*prope* Wettin) & Sileſia (*prope* Mannebach.)
c. ſpicanthi.
in montibus Cevennis.
d. criſpæ.
in Germaniæ *circulo* weſtphalico (*prope* Willemſtein.)
b. acroſtichi.
a. ſeptentrionalis.
in Sileſia.
b. thelypteridis.
prope Altwaſſer *in* Sileſia.
c. pteridis.
a. aquilinæ.
in montibus Cevennis, Bohemia (*prope* Commotau,) & Sileſia (*prope* Mannebach.)
d. aſplenii.
a. linguæ cervinæ.
in Galliæ *rivo* Furens.
b. ceterach.
in Galliæ *rivo* Furens, *argillæ micaceæ impreſſus.*
c. trichomanoidis.
in Germaniæ *circulo* weſtphalico (*prope* Bademberg,) *in* Bohemia (*prope* Commotau,) & Venetorum *montibus* Veronenſibus.
d. rutæ murariæ.
in Germaniæ *circulo* weſtphalico (*inter* Borbeck & Eſſen.)
e. adianti nigri.
in Germaniæ *circulo* weſtphalico (*inter* Borbeck & Eſſen) & *in* Galliæ *rivo* Furens.
e. polypodii.
. vulgaris.
in Sileſia (*prope* Mannebach, & *in* Venetorum *montibus* Veronenſibus.

b. criſtati.
in Germaniæ *circulo* weſtphalico (*prope* Badenberg)
c. filicis maris.
in Germaniæ *circulo* weſtphalico (*prope* Muhlheim *ad* Roram) *in* Thuringia (*prope* Rotenburg *ad* Salam) *&* Sileſia (*prope* Mannebach)
d. rhætici.
in Sileſia (*prope* Altwaſſer.)
e. dryopteridis.
in Germaniæ *circuli* weſtphalici *fodinis carbonariis* (*prope* Badenberg *&* Rothberg.)
f. adianti.
in Hercynia (*prope* Ileſeld,) Germaniæ *circulo* weſtphalico (*inter* Borbeck *&* Eſſen,) *&* Galliæ *rivo* Fureus.
ββ. muſcorum.
in Venetorum *montibus* Veronenſibus (*in* marga ſchiſtoſa,) *&* Saxonia (*prope* Zwickau *in argilla figulina.*)
a. lycopodii clavati.
in Sileſia (*prope* Altwaſſer.)
tt. algarum.
in Pappenhemii *marmore foſſili.*
a. fuci veſiculoſi.
in Temeiæ *marga.*

Rhizolithus. 2. Ph. radicis. *Syſt. nat.* I. *p.* 202. *n.* 3.
Waller. miner. 335. Petrificatum radicis arborum & plantarum.
rarior, niſi radices ſubterraneas in pulverem ſeu humum dilapſuras, aut excavatas, & foſſili quodam farctas, aut cortice lapideo obductas pro radice in foſſile conversa habens occurrit tamen marmoreus in Galliæ Campania, Italia (*e. gr. in ruderibus* Pompejæ, *& ad lucum dei* Tartari,) Hungaria (*prope* Badam *&* Liſſchca,) *in* Wacca, *in* Bohemia (*prope* Joachimsthal.) *porcellaneus in* Japonia, achatinus *in* Franconiæ *principatibus* Coburgenſi *&* Baruthino,) *ferri vitriolo impraegnatus in* Sibiria (*prope* Koltſchedanskaja *ad fluvium* Iset) *&* Suecia (*in palude monti argenteo occidentali vicina,*) *& ferri calce perfuſus in* Fennonia (*in lacu* Laugelmo) *&* Bohemia (*prope* Orbriſſan.)

trunci. 3. Ph. trunci. *Syſt. nat.* I. *p.* 202. *n.* 4. *Schreb. lithol.* 116. *Carth. miner.* 93.
a. herbarum.
typolithus argilloſus in Saxonia (*prope* Dresdam) *& ducatu* Brunsvicenſi (*inter* Salzthal *&* Azum.)

β. graminum.

utplurimum typolithus in Hungariæ (*prope* Lehotca) *pyromacho*, Sileſiæ (*prope* Mannebach,) Germaniæ *circuli* weſtphalici (e. gr. *prope* Willemſtein, Lotharingiæ (*prope* Lach,) & *montium* Cevennenſium *marga bituminoſa* & *ſuillo ſchiſtoſo*.

Lithoxylon. γ. arborum.

nunc trunci integri una cum ramis, ut interdum e. gr. *in* Belgio, Daniæ Seelandia, *ducatu* Weſtphaliæ *ſilvas ſubterraneas referat, nunc partis, nunc crudi & ſani, nunc ſcarioſi, aut per teredines exeſi, in carbones converſi, clavis perfoſſi, aut aſciæ aliorumque inſtrumentorum ope in varias formas redacti, cortice denudati aut adhuc induti, nonnunquam ita, ut ligni ſpecies adhuc dignoſci queat, querni, fagini, pinei, abiegni, ſaligni.*

a. *marmoreus intus ſæpe ſpato fartus.*

in Irlandia, Volhynia, Marchia Brandenburgica (*prope* Arendſee,) Bohemia (*prope* Joachimsthal, (Franconia (*prope monaſterium* Banz & Ilmenau,) Saxonia *inferiori* (*prope* Goslariam & *in monte* Hildeſienſi Creuzberg,) Wirtembergia (*prope* Boll, Dolfingen, Duslingen, Naehren, Ofterdingen,) Helvetia (*ad fluvium* Birſa *pagi* Baſileenſis,) Hungaria *inferiori* (*prope* Schemniz.

b. ſuillus.

in Wirtembergia (*prope* Boll.)

c. gypſoſus.

in Bohemia & Pedemontio (*prope* la Morra & Alice.)

d. argilloſus.

in Hungaria *inferiori* (*prope* Creuz.)

e. ſiliceus.

in Sina, *inſula* Martinica, Irlandia (*in lacu* Loughneagh, Anglia, lotharingia, Helvetia (*in fluvio* Birſa *pagi* Baſileenſis,) Italia (e. gr. *prope* Rivalta, & *in* Pedemontio *prope* Strevi, Ferrere, Alice & la Morra,) Temeſia, Tranſilvania (*prope* Deva, Walye & Cronſladt,) Hungaria (*prope* Creuz, Cremniz, Boldagko.) Sileſia (*prope* Landshut, Marchia Brandenburgica (*prope* Schmullen,) Bohemia (e. gr. *in montibus* giganteis, *prope* Neu Packov, Falkenau, Altſattel, Coſois, Wilkiſchen, *termas* Tœplizenſes & Carolinas,) Saxonia (e. gr. *in monte* Keulenberg, *prope* Dreſdam, & Hilbersdorf, *in comitatu* Lohenſtein) Thuringia (*inter* Tolau & Himmelsberg,) Franconia (*in principatibus* Coburgenſi *prope* Schlettach, Waldſachſen, Luzelbuch, Bambergenſi *prope* Ferchheim, Her-

bipolitano, Baruthino *prope* Adelsdorf & Erlangam *etiam prope* Norimbergam,) *in* Carinthia, Carniolæ & Stiriæ *alpibus*, *in* Auſtria *inferiori* (*prope* Brunn)

a. achatinus.

Hoffmann bergm. Journ. 1788. 1. *p.* 289. *Karſten Lesk. Mineralkab.* 1. *p.* 136. Holzſtein.

in Sibiria (*prope* Kolywan,) Hungaria (*prope* Tokai,) Saxonia (*prope* Chemniz,) Thuringia (*prope* Osmannſtadt,) *rarius vagus*, *ſubopacus*, *in fragmenta indeterminata vel feſtucas rudes diſſiliens*, *parum nitens*, *politura tamen eximium nitorem adipiſcens*, *intus fibroſus*, *texturæ tamen conchaceæ*, *utplurimum variegatus*, *maculoſus aut ſtriatus*, *frequentiſſime nigricans aut infumatus*, *interdum ruber*, *rarius ochraceus*, *aut viridis*.

b. opalinus.

Karſten Lesk. Mineralkab. 1. *p.* 170. Holzopal.

Habitat in Hungariæ *ſuperioris comitatu* Liptovienſi, *ſubdurus*, *opacus vel ſubopacus*, *in fragmenta indeterminata vel feſtucas longas diſſiliens*, *in cruſtas ſecedens*, *utplurimum parum nitens*, *longitudinaliter fractus fibras*, *transverſe ſuperficies convexas offerens*, *utplurimum variegatus*, *coloribus albo*, *cineraſcente*, *fuſco*, *ochraceo & hyacinthino per ſtrias alternantibus.*

c. arenarius.

in Sileſia (*prope* Altwaſſer,) Bohemia (*prope* Altſattel,) Thuringia (*prope* Kuffhauſſen,) Magdeburgo (*prope* Halam, (*prope* Aquiſgranum, *in* Suavia (*prope* Halam,) & *præſertim* Wirtembergia (*prope* Stuttgardiam.)

f. aluminoſus.

ſtratis interdum amplis, *in* Anglia, Jemtia (*in* paroecia Nas,) Weſtrogothia Sueciæ (*prope* Billingen,) Scania (*prope* Andrarum,) *principatu* Goettingenſi (*prope* Mundam,) Haſſia (*prope* Almerodam & *in monte* Weiſener,) Saxonia (*prope* Düben,) Bohemia (*prope* Commotau & Altſattel,) Auſtria (*prope* Hainfeld) & Pedemontio (*prope* la Morra.)

g. vitriolo ferri perfuſus.

in Boruſſia (*ſtratis ſuccino ſuper incumbentibus*,) Stiria (*prope* Leoben) & Wirtembergia (*prope* Boll.

h. vitriolum cupri protrudens.

in Hungaria *inferiori prope* Herrengrund.

i. bituminoſus.

integras hinc inde ſilvas ſubterraneas conſtituens, *in imperio* ruſſico (*potiſſimum ad fluvium* Iſet,) Scania Sueciæ (*pro-*

pe Boſerup & Andrarum,) Dania (*potiſſimum* Skelandia,) Islandia, Anglia (*potiſſimum provinciæ* Lincola, Irlandia, Hiſpania (*potiſſimum* Aſturia & Andaluſia,) Gallia (*potiſſimum* Normandia & Burgundia *ſuperiori prope* S. Agnes,) Belgio (*é. gr* Hollandia & Flandria) Germaniæ *circulo* weſtphalico (*prope* Cuſter, Caar, & *in ericeto* Vena.) Naſſovia (*parte* Dillenbugenſi, Diezenſi, Hadamarenſi, *prope* Oberſtein,) Haſſia (*prope* Gieſſam, Sangerhauſen, *in montibus* Heersbe.g & Weiſener,) *terris* Hannoveranis (*parte* Luneburgenſi, *prope* Cellas, Goettingam, Mundam Thuringia (*prope* Erfordiam & Artern, Magdeburgo (*prope* Altenwedding, Beichliz Beyderſſee, Halam, Quedlinburgo, Marchia Brandenburgica (*prope* Francofurtum, Kœnigswalde, Freyenwalde.) Boruſſia, (*in arenæ ſtratis ſuccino ſuperincumbentibus*,) Saxonia (*prope* Sangerhauſen, Peſterviz, Lipſiam, Mehren, Duben, Altenburg,) Luſatia (*prope* Wehrau & Oberſchewerta,) Bohemia (*prope* Toepliz,) Franconia (*prope* Norimbergam,) Bavaria (*prope* Ratisbonam,) Wirtembergia (*prope* Laureacum & *thermas* Bollenſes,) Stiria (*prope* Leoben *ad fluvium* Canoch,) Auſtria *ſuperiori* (*prope* Lambach,) Hungaria (*prope* Roniz & Schreibersdorf,) Temeſia,) Dalmatia (*parte* Morlachica,) Italia (*prope* Spoletum, *in* Hetruria, *prope* Rivolta, *in* Pedemontio *prope* la Morra & Auguſtam Taurinorum, *etiam in valle* d'Aoſta) & Helvetia (*e. gr. in pago* Tigurino & Thurgovia.)

k. pyritaceus.

in Lotharingia, *ducatu* montano *prope* Bensburg,) Hildeſia, Saxonia *prope* Lipſiam,) Franconia (*prope* Norimbergam,) & Wirtembergia (*prope thermas* Bollenſes.)

l. feri calce perfuſus.

in Helvetia (*pago* Bernenſi,) Hungaria (*prope* Schemniz,) Bohemia (*prope* Oſſeg, Altſattel, Presniz,) Haſſia (*prope* Gieſſam,) *comitatu* Laubacenſi (*ad lacum* Martiſſee,) & *in ducatu* montano (*e. gr. prope* Gerresheim.)

m. cupri calce gravidus.

in Sibiria, Suecia, Haſſia (*prope* Grosbuſek.)

Litophyllum. 4. Ph. folii. *Syſt. nat.* I. *p.* 202. *n.* 5. *Geſn. petrif.* 22. *Woltersd. miner.* 43. *n.* 3. Litobiblium.

typolithus ſatis frequens, diverſiſſimarum plantarum præſertim arborum folia referens, in marmore, topho, ſuillo, marga, argilla, arenario; rarius in pyromacho aut ferri calce indurata.

Antholithus. 5. Ph. floris *Syſt. nat.* I. *p.* 202. *n.* 6.
α. ſpicarum graminis.
Waller. miner. 287. Minera cupri figurata ſpicam referens.
Geſn. petrif. 22. Minera cupri & argenti.
Wolff. haſſ. ſubt. t. 5. *f.* 5. Spica frumenti metallaris.
in Sileſia, Franconia (*prope* Ilmenau,) Germaniæ *circulo* weſtphalico (*prope* Muhlheim *ad* Roram) *& montibus* Cevennis.

α. phalaridis bulboſæ.
cupro albido, cinereo aut vitrato, interſperſo interdum ſubtiliſſime argento perfuſum, in Haſſia (*prope* Frankenberg & Thalitter.

β. herbarum.
niſi merus ludus, ſemper typolithus, lapidi fiſſili compreſſus.
a. galii.
in Anglia *& montibus* Cevennis.
b. heliotropii.
in marga bituminoſa Islebienſi.
c. alſines.
in ſileſia.
d. ranunculi.
in epiſcopatu Conſtantienſi (*prope* Oeningen.)
e. myagri.
in Anglia.
f. aſteris.
in Sileſia (*prope* Laſſig,) & Hercynia (*prope* Ilefeld.)
g. centaureæ.
in Sileſia.
h. filicis.
in Helvetia, *& circuli* Germaniæ weſtphalici *fodina carbonaria* (*prope* Badenberg.)

Carpolithus. 6. Ph. fructus. *Syſt. nat.* I. *p.* 202. *n.* 7.
in Sileſiæ, Bohemiæ *marga & arenario, rari, frequentius, niſi meri naturæ luſus, typolithi.*

α. ſeminum nudorum.
a. glandium
in Angliæ *fodinis carbonariis.*
β. capſularum.
in Pedemontii *arenario* (*prope* la Morra.)
a. fagi ſylvaticæ.
in comitatu Laubacenſi
γ. ſtrobilorum.

in Sileſia (*prope* Landshut,) Hungaria (*prope* Litſchca *comitatus* Liptovienſis ,) Auſtria (*prope* Viennam ,) Helvetia (Tiguri *turſu*) & Pedemontii *arenario.*

δ. nicium.

a. coryli.

in Angliæ *fodinis carbonariis.*

ε. druparum.

a. juglandis.

in Pedemontii *arenario* (*prope* la Morra,) & Burgundia *ſuperiori* (*prope* Long - le - Saunier.)

ζ. leguminum.

in Angliæ *fodinis carbonariis.*

Quid properaſſe juvat, quid pauca dediſſe quieti
Tempora ? quid nocti conſeruiſſe diem ?
Si ſemel hic ſtandum eſt.

ADDENDA QUÆDAM.

p. 105. poſt l. 5.

phoſpho- 13. M. compactum diaphanum, niveum, frictione in tenebris ricum. lucens. *Craydon in Cabinett. mineralog. del Collegio Nazareno di Roma* 1. *p.* 156. 157.

Habitat in montium Veſuvii Somma, Ottajano *ſtratis primitivis, in aqua forti cum viva effervescentia fere totum ſolvendum, micanti ſatis ſimile, an vere diſtinctum? An huc quoque ſpectat lapis ruber, cum acidis effervescens, ſcorliten immixtum habens, in monte* S. Gotthardi *obvius, a* Cl. Pini *memor. della ſocieta patriotica di Milano.* P. I. *commemoratus? In tenebris ſi fricetur, aut contuſus ferro candenti inſpergatur, lucem ſpargit.*

Dolomiæi. 14. M. tardius cum acidis effervescens, igni expoſitum vitreo cortici ſe obducens. *Sauſſure journ. de phyſ.* 1792. 1. *p.* 161.

Habitat in montibus Tirolenſibus, *interdum ad chalybem ſcintillans, & mallei icta in fragmenta convexa diſcedens, in* 10000 *partibus* 4600 *aëris fixi*, 4429 *cretæ*, 5860 *aluminaris*, 1400 *magneſiæ*, 740 *calcis ferreæ continens, ut igitur, ſi pondere prædominantem partem reſpicias, potius ad argillaceas ſpectet.*

elaſticum. 15. M. elaſticum ochroleucum ferro candenti inſperſum lucens. *Fleuriam de Bellevue journ. de phyſ.* 1792. *Hoüt. p.* 86. &c.

Habitat in vallibus Levantino & Campo longo *monti* S. Gotthardi *confinibus, ſtratum* 50 *pedes altum, & per* 100. *argyas extenſum conſtituens, tremoliten ſæpe inſperſum habens, in* 2000 *partibus* 925 *aeris fixi, ultra* 640 *cretæ*, 340 *aluminaris ferruginoſæ*, 20 *micæ*, & 7 *magneſiæ continens.*

p. 117. poſt l. ult. l.

PICROSPATUM. Ex terra calcaria & vix minori magneſiæ parte conflatum. Paraſiticum, ſubdurum.

cryſtallinum. 1. PICROSPATUM. *Lindacker ap. J. Mayer Samml. phyſic. Aufs.* 2. *p.* 284.

Cabinett. mineralog. del Colleg. Nazar. di Roma I. *p.* 163. *Karſten bergm. Journ.* 1792. *Vol.* 2. *p.* 80. Bitterſpath.

Habitat in Auſtriæ *ſuperioris* , Salisburgi, Tirolis *ſmectide, ſerpentino ſiſſili* , *rufeſcens aut flaveſcens* , *duritie ſpatum ſuperans* , *ad fluorem ſpatoſum propius accendens, cum acidis parum & tarde efferveſcens* , *diaphanum vel pellucidum* , *longitudinaliter diffractum fibroſum* , *transverſe fractum in fragmenta imperfectius convexa ſecedens* , *ſæpius ſecundum longitudinem ſtriatum* , *coloris mellei* , *rufeſcentis aut ſubfulvi* , *rarius forma communi* , *quam priſmatum hexaedrorum* , *acutangulorum nitentium* , *ſcabrorum aut glabrorum* , *utplurimum compreſſorum & in pyramides imperfectas terminatorum* , *faciebus rhombeis conſpicuorum comparens*, *in* 100 *partibus* 52 *terræ calcariæ* , 45 *magneſiæ* , & 3 *calcis ferreæ continens.*

p. 158. poſt l. ult. l.

Lepidolithus. 9. M. ſquamis ſparſis planis cohærentibus dilute violaceis. *Karſten & Klaproth bergm. Journ.* 1792. *Vol.* 2. *p.* 80. Lillalit, Lepidolit.

Habitat in Moraviæ *montibus rupeſtris* , *in* 10000 *partibus ex* 5450 *terræ ſiliceæ* , 3825 *aluminaris* , 75 *calcis ferreæ & magneſiæ nigræ* , & 250 *aquæ conſtans* ; *an hujus generis?*

p. 168. poſt l. 4. l.

vesuvianus. 6. Sc. diaphanus fulvus, cryſtallis hexaedro-prismaticis. *Ferber Brief. aus Welſchl. p.* 167. Gelblicher Hyacinth-oder Topasfarbiger ſechsſeitiger Schoerl.

La Metherie, journ. de phyſ. 1792. *Nov. p.*356. Hyacinthine, Hyacinthe des volcans.

Habitat in Veſuvii lavis *ſperſus* , *duritie ad gemmas accedens*, *ut harum nomine ſæpe veneat* , & *congeneres ſuperet*, *genuinum* v. g. = 1500 , 1100 *frictione electricus.*

poſt l. 14. l. *β*) Zeylanites, cryſtallis dodecaedricis, marginibus truncatis. *La Metherie* , *journ. de phyſ.* 1792. *Aug. p.* 156.

p. 173. poſt l. 27. *β*) Euclaſius cryſtallis tetraedro priſmaticis in pyramides anomalas tetraedras terminatis , faciebus priſmatis obliquis. *La Metherie* , *journ. de phyſ.* 1792. *Aug. p.* 155.

p. 175. poſt l. 8. l. β) Augites Werneri.

p. 177. l. ult. l. *an huc ſpectat ſcorlus ruber?*

Granadillus. 16. G. dura ſubponderoſa rubra texturæ parallele fibroſæ igne difficulter liquanda at conicem emittens, cryſtallis priſmaticis acicularibus.

Ferber 3 Briefe mineralog. Innhaltſ. p. 21. Rothes ſtrahlichtes Foſſil.

v. Fichtel mineralog. Bemerkung. von. den Karpathen. 2. *p.* 59. *Bindheim chemiſch. Annal.* 1792. *Vol.* 2. *p.* 317. Rother Schoerl.

Habitu in monte Helvetico S. Gotthardi, *montibus* pyrenæis, Caſtiliæ, Hungariæ (*prope* Murany,) & Sibiriæ (*prope* Sarapulskoi,) *colore kermeſino, ſanguineo aut florum perſici æmulo, diaphana, tranſverſe fracta convexas ſatis facies oſtendens, extrinſecus nitens, in fragmenta acuta deſſiliens, ponderis ſpecifici* = 3100, 1000, *politura egregium nitorem acquirens, aciculis nunc ſparſis, nunc in clavæ, nunc in retis ſpeciem aggregatis, quartzo aut granitæ innidulans, in* 200 *partibus* 114 *terræ ſiliceæ*, 70. *aluminaris*, 1 *magneſiæ albæ*, 10 *calcis ferræ magneſia nigra contaminatæ continens.*

p. 181. poſt. l. ult. l.

fibroſum. 6. F. fibroſum, fibris parallelis in ſtrata diſtinctis.

Lindaczeo ap. J. Mayer Sammil. phyſ. Aufs. 2. *p.* 278. &c.

Habitat vagus in Bohemia *ad* Moldavæ *rivas, interdum quartzi micæve veſtigia adnata ſibi habens, in fragmenta indeterminata (an igitur hujus generis.) diſſiliens, quartzi cryſtallis haud raro durius, utplurimum fuſcum, intus pauliſper, matris perlarum in modum nitens.*

p. 219. l. 7. l. actinoti l. granadilli.

l. 9. l. prope Genev. l. *egregiam polituram admittens, ſpiculis nunc flavicantibus, nunc rubellis, nunc obſcurius rubris quartzo pellucido excoloris immerſis.*

poſt l. 9. l.

acicularis. 60. Gr. ex quartzo pellucido & actinoti ſpiculis compoſitus.

Habitat vagus ad radicem montium ſabaudicorum *prope* Genevam.

l. 14. 15. del. *nunc flavicantibus rubris.*

p. 291. poſt. l. ult. l.

Arenæ cuidam nigræ, pulverem pyrium mentienti, cum quartzi albi granulis permiſtæ in valle paræciæ Cornubientis Menaken (*a qua etiam* Menacanitæ *nomine inſignita fuit*) *ad ripas rivi cujusdam obviæ, magneti obſequioſæ, in pulverem tenuiſſimum facile comminuandæ & ſatis ponderoſæ* (= 4, 427, 1000) *præter ferrum metallum ſui generis inhærere nuper ſuſpicatus, & nonnullis experimentis comprobare annisus eſt* Cl. Gregor (*chemiſch Annal.* 1791. Vol. 1. p. 40. &c. 103. &c. Vol. 2. p. 55.) *ſolvitur autem acido vitrioli quod amethyſti inde tinctum nanciſcitur, atque ex eo per lixivium cærulei Berolinenſis forma pulveris albi, per tincturam vero gallarum forma pulveris ex rubro aurantii præcipitatur, & ſua præſentia lixivium illud impedientem, quo minus ferrum cærulei berolinenſis facie præcipitet, At donec catalogo metallorum inſeratur plura adhuc expectare juvat experimenta.*

p. 362. poſt. l. ult. l.

Argentum rubrum, ſaltem in Hercyniæ & Saxoniæ *fodinis obvium nihil arſenici, at ſtibium* ($\frac{35-40}{100}$ *& plus*) *continere, accurata, docent Virorum Clariſſimorum* Klaprothi (*bergmænn. Journ.* 1792. Vol. 1. p. 141. &c.) & Weſtrumb (*chem. Annal.* 1792. Vol. 1. p. 318. &c.) *ſcrutinia.*

CRYSTALLI

LAPIDOSÆ.

in Tabulis *adjectis* 1. 2. 3.

Latera. *Plana.*

1. *Figura* 18edrum, rectangulis 6. Trigonis. 12.
longitudinalibus.
Columna oblonga hexaedra æqualis. *Pyramides* hexaedræ æquales.

2. *Figura* 18edrum, rectangulis 6. Trigonis 12.
tranſverſis.
Columna abbreviata hexaedra æqualis. *Pyramides* hexaedræ æquales.

3. *Figura* 12edrum, rectangulis 0. Trigonis 12.
Columna 0. *Pyramides* hexaedræ æquales.

4. —— 18edrum, rectangulis 6. Trigonis 12.
2. *oppoſitis latis*, 2. *oppoſitis truncatis.*
Columna oblonga hexaedra inæqualis. *Pyramides* hexaedræ inæquales.

5. *Figura* 8edrum, rectangulis 6. Hexagonis 2.
æqualibus.
Columna oblonga hexaedra æqualis. *Pyramides* 0.

6. *Figura* 8edrum, rectangulis 6. Hexagonis 2.
alternis anguſtis.
Columna oblonga hexaedra inæqualis. *Pyramides* 0.

7. *Figura* 8edrum, Pentagonis 4. Rectangulis 4.
alternatis *alternatis.*
Columna oblonga tetraedra inæqualis utroque fine in aciem terminata.

8. *Figura* 10edrum, Pentagonis 4. Rhomboidibus 4. Trapeziis 2.
Columna oblonga hexaedra, inæqualis utroque fine in aciem terminata. *Planis* 2. *oppoſitis latioribus.*

9. *Figura* 14edrum, rectangulis 6. Trigonis 4. Trapeziis 4.
2 *oppoſitis anguſtis* *Priori alternis.*
Columna oblonga tetraedra inæqualis. *Pyramides* tetraedræ inæquales. *Planis* 2 *oppoſitis latioribus. Planis* 2 *oppoſitis latioribus truncatis.*

10. *Figura* 12edrum, Pentagonis 6. Pentagonis 6.
Alternis anguſtis, *æqualibus.*
Columna oblonga hexaedra inæqualis. *Pyramides* triedræ contrariæ æquales.

11. *Figura* 12edrum, Pentagonis 6. Pentagonis 6.
æqualibus *æqualibus.*
Columna brevis hexaedra æqualis. *Pyramides* triedræ contrariæ æquales.

Latera Plana.

12 *Figura* 14edrum, Pentagonis 6. Trapeziis 6. Trigonis 2.
Columna oblonga hexaedra æqualis. *Pyramides* triedræ contrariæ truncatæ.

13. *Figura* 12edrum, Trigonis 6. Pentagonis 6.
Alternis.
Columna abbreviata hexaedra æqualis. *Pyramides* triedræ contrariæ planiuſculæ.

14. *Figura* 12edrum, Pentagonis 4. Trapeziis 8.
Columna depreſſa hexaedra inæqualis. *Pyramides* triedræ hinc contrariæ. *Planis* 2 *latioribus verticalibus.*

15. *Figura* 10edrum, Hexagonis 2. Trapeziis 4. Pentagonis 4.
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16. *Figura* 14edrum, Tetragonis 6. Trapeziis 8.
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Teſſera depreſſa tetragona, *marginibus* duplicatis, *angulisque* truncatis.

17. *Figura* 10edrum, Rhombis 2. Trapeziis 8.
magnis.
Teſſera depreſſa rhombea, *marginibus* duplicatis.

18. *Figura* 18edrum, Tetragonis 6. Hexagonis 12.
Teſſera cubica, *marginibus* truncatis.

19. *Figura* 6edrum, Tetragonis 6.
Æqualibus.
Teſſera cubica, *marginibus* integris

20 *Figura* 14edrum, Hexagonis 6. Trigonis 8.
Teſſera cubica, *angulis* parum truncatis.

21. *Figura* 12edrum, Rhombis 4. Tetragonis 2. Trigonis 8.
Teſſera cubica, *angulis* penitus truncatis.

22. *Figura* 6edrum, Rhombis 6.
Æqualibus.
Teſſera cubica, in rhombum obliquata.

23. *Figura* 8edrum, Trigonis 8.
Teſſera octaedra æqualis.

24. *Figura* 14edrum, Hexagonis 8. Tetragonis 2. Rhombis 4.
Teſſera octaedra, *angulis* truncatis.

25. *Figura* 26edrum, Hexagonis 8. Rectangulis 12. Octogonis 6.
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26. *Figura* 12edrum, Rhombis 6. Rhombis. 6.
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Teſſera dodecaedra æqualis.

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27. *Figura* 12edrum, Rhomboidibus 6. Rhombis 6.
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Teſſera dodecaedra elongata.

28. *Figura* 36edrum, Rhombis 12. Hexagonis 24.
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Teſſera dodecaedra, *marginibus* truncatis.

29. *Figura* 12edrum, Pentagonis 2. Trapeziis 10.
Teſſera pentagona depreſſa.

30. *Figura* 12edrum, Pentagonis 2. Pentagonis 10.
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31. *Figura* 12edrum, Scalenis 12.
proximis paribus.
Teſſera ſ. columna nulla. *Pyramidibus* duplicato-triedris contrariis.

32. *Figura* 18edrum, Hexagonis 6. Rhombis 12.
Teſſera ſubcolumnaris hexaedra, *Piramydibus* hexaedris æqualibus.

33. *Figura* 22edrum, Hexagonis 4. Trapeziis 4. Pentagon. 12. Hexagon. 2. *proximis paribus.*
Columna hexaedra inæqualis, *Pyramidibus* hexaedris truncatis.
planis 2 oppoſitis latioribus.
planis 2 oppoſitis duplicatis.

34. *Figura* 14edrum, Rectangulis 2. Hexagonis 8. Rhombis 4.
Columna hexaedra inæqualis, *Pyramidibus* tetraedris cuneatis.
planis 2 oppoſitis alienis. *planis oppoſitis minoribus.*

35. *Figura* 18edrum, Hexagonis 12. Tetragonis 6.
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36. *Figura* 10edrum, Trigonis 8. Tetragonis 2.
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37. *Figura* 10edrum, Trigonis 4. Hexagonis 6.
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Teſſera 4edra, *marginibus* truncatis.

38. *Figura* 12edrum, Tetragonis 2. Hexagonis 4. Rhombis 6.
Teſſera rhombea inæqualis, *marginibus* 2 proximis truncatis.

39. *Figura* 18edrum, Hexagonis 6. Rhombis 6.
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36edræ. 28.

A. Rhombus.
B. Rhomboides.
C. Rectangulum.
D. Trapezium.
E. Scalenum.

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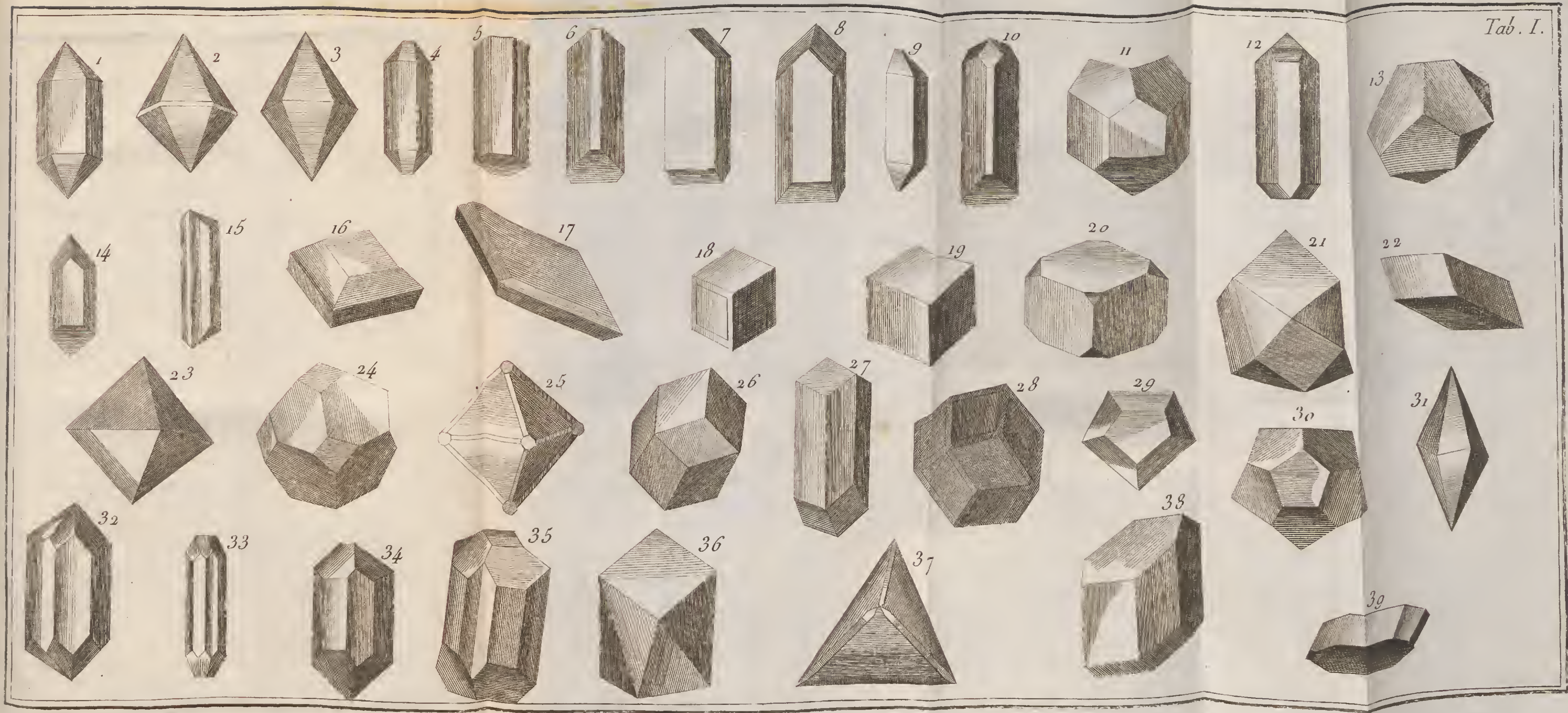
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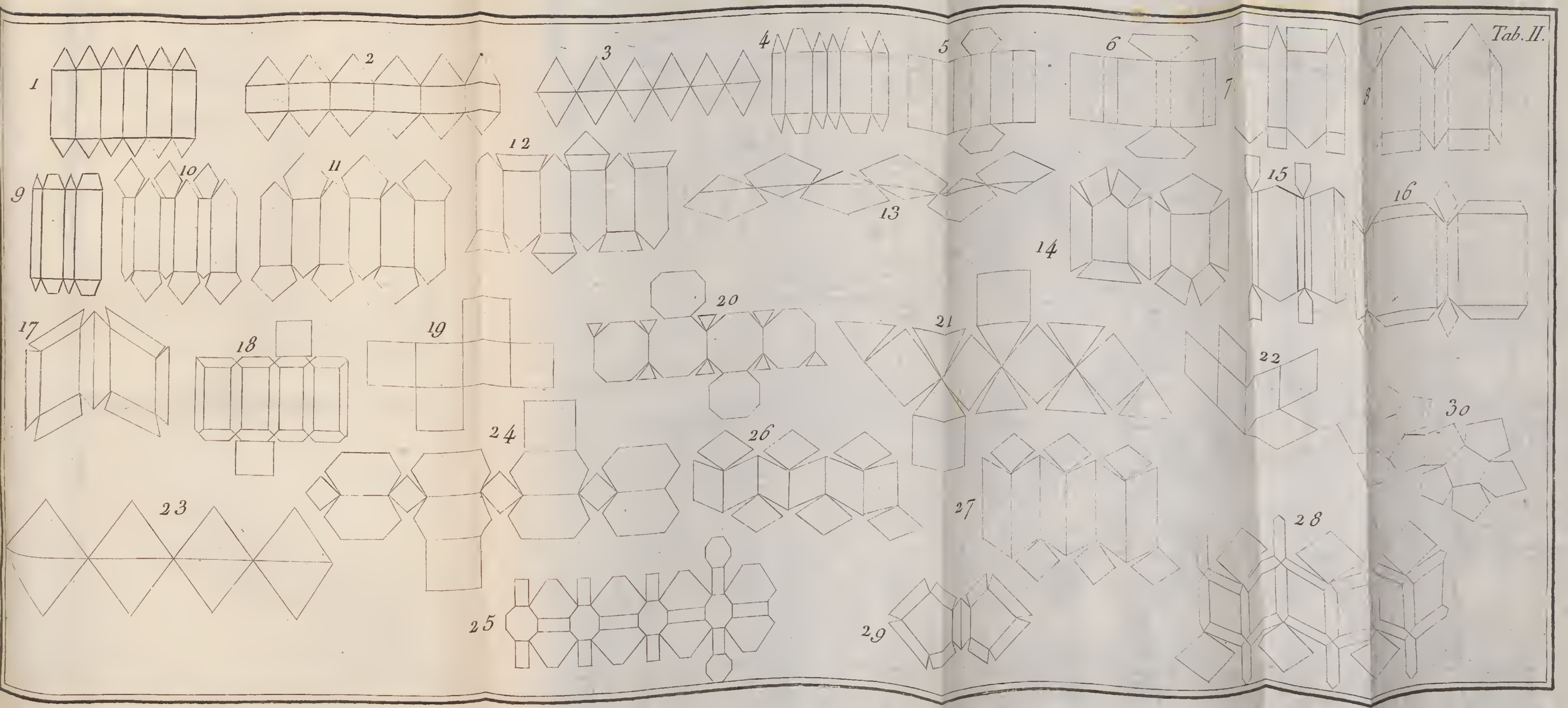
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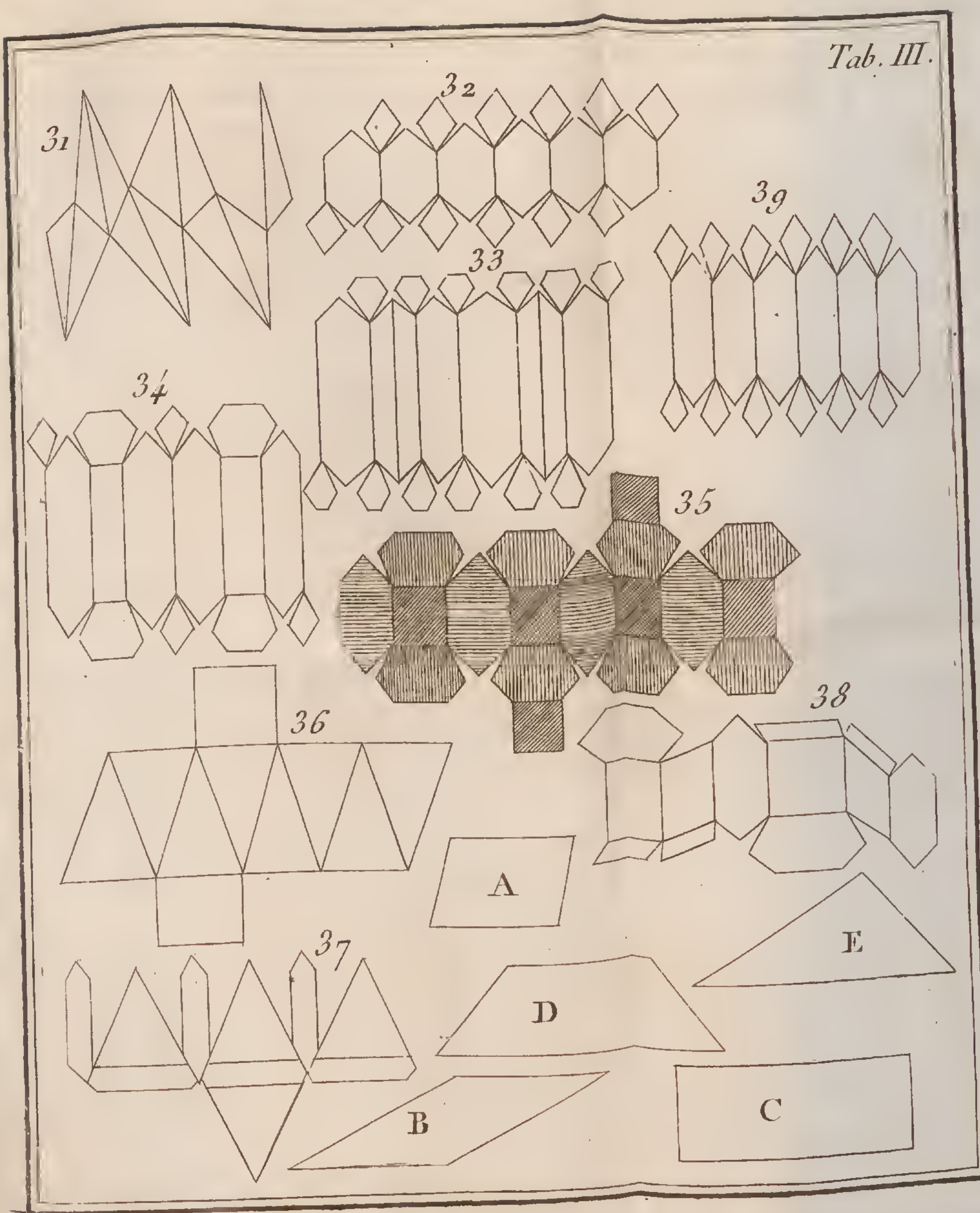
FINIS.

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